

Subject Index

- A**
- Abdominal fat, genomewide linkage scan for, 848
- Acetoacetate, dysregulation of ABCA1 by, in diabetes, 2922
- Acetyl-CoA carboxylase
activation by glucose, insulin release and, 2536
inhibition by MEDICA, in rats, 1548
insulin resistance and, in rats, 1548
- Acetyl-L-carnitine, effects in diabetic neuropathy, 2619
- ACRP30. *see* Adiponectin
- Actin disorganization by insulin, in vascular smooth muscle cells, 2256
- Activating transcription factor-2, in PEPCK transcriptional regulation by retinoic acid, 3400
- Acyl-CoA, long-chain, weight loss and, in morbid obesity, 2959
- Acyl-CoA binding protein, expression in obese insulin-resistant Zucker rat, 449
- Adenosine 5'-monophosphate (AMP)-activated protein kinase
activity in type 2 diabetes, metformin and, 2074
and β -cell function, S414
cascade, activation by metformin, 2420
inhibition of hyperglycemia-induced apoptosis by, in HUVECs, 159
and insulin sensitivity, in high-fat-fed rats, 2886
signaling in Zucker rats, 2703
- Adenosine triphosphatase (ATPase). *see* Sarcoplasmic reticulum Ca^{2+} -ATPase (SERCA)
- Adenosine triphosphate (ATP)
free cytosolic levels, oscillations in β -cells, S162
production of, ouabain effects on, 2522
- Adenosine triphosphate (ATP)-binding cassette transporter A1, dysregulation of, 2922
- Adenosine triphosphate (ATP)-sensitive K^+ channels
[Ca^{2+}]_i effects on, in β -cells, 376
and coronary blood flow, in diabetes, 1201
independent cAMP action, S29
inward rectifier 6.2 (KIR6.2)
cytosolic domains, interactions of, S377
E23K variant
and insulin secretion, 3135
predisposition to type 2 diabetes, S363
gene polymorphism Glu23Lys, and response to hyperglycemia, 2854
gene polymorphisms, and type 2 diabetes, 875
opener NNC 55-9216, 1896
pancreatic, nucleotide sensitivity of, S358
- Adipocytes
brown
from GLUT4myc-expressing mice, 2719
IGF-I-deficient, 743
co-culture with skeletal muscle cells, 2369
differentiation of, gene induction by rosiglitazone during, 1042
- $\text{G}\beta_3$ gene polymorphism C825T and, 1601
gene expression in, TNF- α and, 1319
hormone-sensitive lipase-absent, 3368
PDE3B downregulation in, 631
preadipocyte differentiation inhibition by, 1699
3T3-L1, PPAR- γ in, 2045
TNF- α processing in, in obesity, 1876
- Adiponectin
and insulin resistance, 2306
mutations, and type 2 diabetes, 2325
plasma levels
and insulin sensitivity, 1884
reduction by androgens, 2734
and skeletal muscle insulin receptor tyrosine phosphorylation, 1884
and thiazolidinedione, 2968
and weight gain, 2964
polymorphisms, and insulin sensitivity, 37
and type 2 diabetes in Japanese, 536, 1294
- AdipoQ. *see* Adiponectin
- Adipose tissue. *see also* Fat
antidiabetic therapy and, 30
blood flow in, and insulin sensitivity, 2467
chronic effects of insulin on, 1493
MMP expression in, in obesity, 1093
PEPCK overexpression in, 624
subcutaneous, regulation of fatty acid entrapment in, 2684
white, DGAT1 overexpression in, in mice, 3189
- Adiposity. *see also* Obesity
childhood, and insulin resistance syndrome, 204
insulin resistance in central adipose depot, 755
- Adolescents
skeletal muscle triglyceride content in, 1022
with type 1 diabetes, endothelial dysfunction and folate status in, 2282
- Adrenalectomy, effects in lipotrophic A-ZIP/F-1 mice, 2113
- Adrenergic regulation, of muscle glucose uptake, during hypoglycemia, 734
- Adrenoceptors, lipolysis mediated by, $\text{G}\beta_3$ gene polymorphism C825T and, 1601
- Advanced glycation end-product receptors and EGFR signaling, 1535
polymorphism screening of putative genes, 256
- Advanced glycation end-products
neutrophil respiratory burst augmentation by, 2846
reduced intake of, and insulin sensitivity, in *db/db* mouse, 2082
reduction by ACE inhibition, in diabetic nephropathy, 3274
- African-Americans
children, hyperinsulinemia in, 3014
genome-wide scan for obesity in, 541
type 2 diabetes risk in, *CAPN10* and, 231
- Age-dependent onset of type 1 diabetes, genetic effects on, 1346
- Aging
insulin resistance and glucose intolerance of, visceral fat and, 2951
insulin secretion and, S234
- leptin resistance during, 1016
- Alanine aminotransferase, and hepatic insulin sensitivity, 1889
- Albuminuria
podocyte number in type 1 diabetes with, 3083
in type 2 diabetes, 1157
- Aldose reductase, inhibition by NO, in diabetes, 3095
- Allografts, islet
autoimmunity in destruction of, 3202
rejection of
CCR5 in, 2489
cytotoxic lymphocyte gene expression and, in nonhuman primates, 562
- α -cells
ghrelin in, 124
response to hyperglycemia, $\text{K}_{IR6.2}$ polymorphism Glu23Lys and, 2854
response to hypoglycemia, insulin sensitivity and, in dog, 3033
- ALT-946, renoprotective effects in (mREN-2)27 rat, 3283
- Altered-peptide ligand NBI-6024, in type 1 diabetes, 2126
- American Diabetes Association
Lilly Lecture 2002, 3141
research funded by, year 3 status, 888
- American Indians, insulin levels and left ventricular structure and function in, 1543
- Amino acid-induced insulin resistance, in skeletal muscle, 599
- Amino acids
kinetics during anhepatic liver transplantation, 1690
placental transport, in diabetes, 2214
- Aminoguanidine, renoprotective effects, in (mREN-2)27 rat, 3283
- 5-Aminoimidazole-4-carboxamide (AICA)-1- β -D-ribofuranoside, insulin effects, in high-fat-fed rats, 2886
- 5-Aminoimidazole-4-carboxamide (AICA)-riboside
effects on insulin resistance syndrome, in rats, 2199
phosphorylation and inactivation of glycogen synthase by, in rat, 284
- 5-Aminoimidazole-4-carboxamide (AICA)-riboside (AICAR), and glycogen metabolism in skeletal muscle, 567
- AMP (adenosine 5'-monophosphate)-activated protein kinase
activity in type 2 diabetes, metformin and, 2074
and β -cell function, S414
cascade, activation by metformin, 2420
inhibition of hyperglycemia-induced apoptosis by, in HUVECs, 159
and insulin sensitivity, in high-fat-fed rats, 2886
signaling in Zucker rats, 2703
- Androgens, reduction of plasma adiponectin levels by, 2734
- Angiotensin, renin-angiotensin system, in renal hemodynamics of diabetes, 2025
- Angiotensin-converting enzyme

- DD genotype, and glomerulopathy, in type 2 diabetes, 251
inhibition of, reduction of AGEs by, in diabetic nephropathy, 3274
- Angiotensin-converting enzyme (ACE) gene, insertion/deletion polymorphism, in type 2 diabetes, 1986
- Animal studies. *see also specific species*
renal GH signaling in diabetes, 2270
- Aniridia studies, *PAX6* mutation and glucose intolerance, 224
- Antibodies. *see also* Autoantibodies
islet, and β -cell function, in adult-onset diabetes, 1754
VDGF, renal effects in *db/db* mice, 3090
- Antidiabetic therapy
and adipose tissue, 30
ginseng berry extract effects, 1851
- Apolipoprotein B-100, kinetics of, regulation of, 2377
- Apolipoprotein E (APOE) gene, and diabetes, and dementia risk, 1256
- Apoptosis
anti-apoptotic effects of hepatocyte growth factor in endothelial cells, 2604
 β -cell, CO protection against, 994
cytokine-induced, cFLIP protection against, in β Tc-Tet cells, 1805
hyperglycemia-induced, in HUVECs, inhibition by AMP-activated protein kinase, 159
myocardial, hyperglycemia-induced, in mouse, 1938
Na/Ca exchange and, in BRIN-BD11 cells, 1815
prevention by PKC δ inhibition, in INS-1 cells, 317
- Aquaporin 9, insulin-mediated suppression of, 2915
- Aquaporin adipose, insulin-mediated suppression of, 2915
- ARIC Study, heart rate variability and coronary heart disease, 3524
- Asians, Bangladeshi, vitamin D receptor mRNA and protein levels in, 2294
- Asian-specific HLA, and susceptibility to type 1 diabetes, 545
- Atherosclerosis, coronary, in type 1 diabetes, 2637
- Atherosclerosis
coronary, IL-1ra genotype and, in type 2 diabetes, 3582
insulin resistance syndrome and, 3069
 $\alpha 2\beta 1$ integrin protection against, in type 2 diabetes, 1523
- Atherosclerosis Risk in Communities Study.
see also ARIC Study
CAPN10 and type 2 diabetes risk in African-Americans, 231
insulin resistance syndrome and atherosclerosis, 3069
- ATPase. *see* Sarco/endoplasmic reticulum Ca^{2+} -ATPase (SERCA)
- ATP-binding cassette transporter A1, dysregulation of, 2922
- ATP-sensitive K^{+} channels
[Ca^{2+}] $_i$ effects on, in β -cells, 376
and coronary blood flow, in diabetes, 1201
independent cAMP action, S29
inward rectifier 6.2 (KIR6.2)
cytosolic domains, interactions of, S377
E23K variant
and insulin secretion, 3135
predisposition to type 2 diabetes, S363
gene polymorphism Glu23Lys, and response to hyperglycemia, 2854
- gene polymorphisms, and type 2 diabetes, 875
opener NNC 55-9216, 1896
pancreatic, nucleotide sensitivity of, S358
- Autoantibodies
anti-CD38ab, long-term effects on β -cells, S474
diabetes-associated, emergence in young children, 646
- Autoantigen insulin B-chain (9-23) peptide, altered-peptide ligand NBI-6024 of, in type 1 diabetes, 2126
- Autoimmune diabetes
Fas/Fas ligand interactions in, in mice, 1391
induction by insulin DNA vaccination, in NOD and RIP-B7.1 mice, 3237
leptin and, in female NOD mice, 1356
metalloporphyrin-based SOD mimic protection against, 347
- Autoimmunity
in islet allograft destruction, 3202
new MHC-linked loci in, 2141
- Autonomic failure, hypoglycemia-associated, in advanced type 2 diabetes, 724
- Autonomic neuropathy, myocardial perfusion in, 3306
- B**
- Bangladeshi Asians, vitamin D receptor mRNA and protein levels in, 2294
- Benfluorex, metabolic and molecular effects in rat hepatocytes, 2363
- Berardinelli-Seip congenital lipodystrophy, in Oman, 1291
- Berlin Diabetes Mellitus (BeDiaM) Study, PPAR- $\gamma 2$ polymorphism Pro12Ala and diabetic nephropathy, 2653
- β -cells
anti-CD38ab effects on, long-term, S474
apoptosis of, CO protection against, 994
ATP oscillations in, S162
calcium in
regulation by SNAP-25, 1425
ryanodine receptors and, S190
SERCA-2 and, S190
circulating, after islet transplantation, 557
cytosolic calcium in
effects on K^{+} -ATP current, 376
SERCA3 and, 3245
death of
inhibition by PTHrP, 3003
in transplanted islets, 66
development of, promotion by GLP-1, in Goto-Kakizaki rat model, 1443
dominant-negative HNF-1 α effects in, 114
fast, cAMP-sensitive Ca^{2+} -dependent exocytosis in, S19
fetal, insulin secretion from, NADH shuttles in, 2989
function of
age and, S234
assessment of, S212
COX-2 and EP3 and, 1772
cytosolic PLA $_2$ and, 98
fatty acid metabolism and, S414
glucose tolerance and, 2170
in impaired fasting glycemia, S265
islet antibodies and, in adult-onset diabetes, 1754
P32/98 and, in Zucker rats, 943
genes, lipid-regulated, 977
genetic switch in, 2355
glucolipotoxicity of, S405
glucose-regulated genes in, S326
growth of, modulation by HNF-1 α , 1785
insulin secretion from
biphasic, granule pools and, S83
clinical characterization of, S122
first-phase, secretory granules and, S74
GLP-1 effects on, S434
glutamate dehydrogenase and, 712
glutaminolysis and, S421
hyperlipidemia effects on, in rats, 662
interstitial glucagon and, 669
KIR6.2 variant E23K and, 3135
L-783,281 effects on, S43
oscillations in, S152
 Ca^{2+} oscillations and, S177
 [Ca^{2+}] and, S144
regulation by sulfatide, in rat, 2514
stimulation by sulfonylurea, S368
stimulus/secretion coupling factors in, S389
in UCP2-knockout mice, 3211
insulin signaling and SERCA in, S427
islet amyloid polypeptide-mediated loss of, blockade by 17 β -estradiol, in mice, 2158
mass in transplanted islets, 66
metabolism in, NMR-based, 1714
mitochondria, and insulin secretion, S37
mTOR regulation by, 2877
neogenesis of
 during hyperglycemia, in rats, 1834
 stimulation by gastrin, 686
new therapeutic strategies, 3141
Okamoto model, recent advances in, S462
Pdx1 control by *Foxa2* in, 2546
proliferation of, IRS-2-mediated signal transduction activation by IGF-1 and, 966
protection from NO, 311
protein kinases, insulin response and, S68
regulatory mechanisms, 3141
response to hyperglycemia, KIR6.2 polymorphism Glu23Lys and, 2854
ryanodine receptor calcium channel in, 1299
after short-term high-fat diet challenge in mice, S138
SREBP1c effects in, 2536
of transgenic mice, c-Myc overexpression effects in, 1793
- β -cell-specific glucokinase
regulation of, S394
transcriptional activation by PPAR- γ , 676
- β Tc-Tet cells, cFLIP protection against cytokine-induced apoptosis in, 1805
- Birth weight
low, early defects in insulin secretion in, 1271
PPAR- $\gamma 2$ polymorphism Pro12Ala and, 2321
- Blood enterovirus, in type 1 childhood diabetes, 1964
- Blood flow
adipose tissue, and insulin sensitivity, 2467
coronary, K_{ATP} channels and, in diabetes, 1201
myocardial
 C-peptide and, in type 1 diabetes, 3077
 insulin effects on, 1125
 skin, in diabetes, 1214
Blood glucose monitoring, continuous, prevention of hypoglycemia with, 3263
Blood letting, in high-ferritin type 2 diabetes, 1000
Blood-mediated inflammatory reaction, abrogation by Melagatran, 1779
Body fat distribution, insulin sensitivity and leptin and, 1005
Body weight, C75 effects on, 3196
Bogalusa Heart Study, childhood predictors of insulin resistance syndrome, 204

- Brain glucose metabolism, insulin and, 3384
BRIN-BD11 cells
 Ca^{2+} oscillations and insulin secretion in, 2773
 Na/Ca exchange in, 366
 and apoptosis and caspase-12, 1815
British, calpain-10 gene and glucose tolerance in, 247
Brown adipocytes
 from GLUT4myc-expressing mice, 2719
 IGF-I-deficient, 743
- C**
C75, food intake effects, 3196
Caffeine, effects on insulin activity in muscle, 583
Calcification, coronary
 LIPC gene and, 1208
 lipoproteins and, 1949
Calcium
 and ATP oscillations in single β -cells, S162
 β -cell
 ryanodine receptors and, S190
 SERCA-2 and, S190
 capacitative entry, hyperglycemia and, 3461
 cytosolic, and K^+ -ATP current in β -cells, 376
 cytosolic-free, SERCA3 and, in β -cells, 3245
 -dependent exocytosis, fast, cAMP-sensitive, S19
 -dependent phospholipid binding by synaptotagmin I C₂A-domain, S12
 endoplasmic reticulum levels, imaging of, with recombinant targeted chameleons, S190
 and insulin secretion oscillations, S144
 intracellular
 L-783,281 effects on, S43
 regulation of, S349
 Na/Ca exchange, in BRIN-BD11 cells, 366
 and apoptosis and caspase-12, 1815
 oscillations, and insulin secretion, 2773, S177
 sarco/endoplasmic reticulum. *see* Sarco/endoplasmic reticulum
 Ca^{2+} -ATPase (SERCA)
Calcium channels
 L-type, regulation by SNAP-25, 1425
 ryanodine receptor, in β -cells, 1299
Calpain-10 gene (*CAPN10*)
 chromosome 2q37 variants (*NIDDM1*), in Scandinavian Caucasians, 3561
 and glucose tolerance, in British, 247
 polymorphisms
 and insulin resistance and free fatty acids, 2658
 and type 2 diabetes, 1644
 and type 2 diabetes in South Indians, 1622
 and type 2 diabetes risk in African-Americans, 231
cAMP (cyclic AMP), independent K_{ATP} channel action, S29
cAMP (cyclic AMP)-sensitive exocytosis, fast, S19
Capillary endothelium, insulin transport across
 in dog hindlimb, 574
 in obesity, 2742
Capillary recruitment
 insulin-mediated, 1515
 in muscle, 42
 lipid infusion and, 1138
Carbon monoxide, protective effects against β -cell apoptosis, 994
N^ε-(Carboxymethyl)lysine, formation of, induction by peroxynitrite, 2833
Cardiac function, improvement by SERCA2a, 1166
Cardiomyocytes, neonatal, hyperglycemia and capacitative Ca^{2+} entry in, 3461
Cardiomyopathy, diabetic
 metallothionein and, 174
 myocardial contractility improvement by SERCA2a, 1166
Cardiovascular dysfunction, PARP and, 514
Carotid artery intima-media thickness, in children with type 1 diabetes, 493
Caspase, activation of, in diabetic retinopathy, 1172
Caspase-12, activation of, in BRIN-BD11 cells, 1815
Cataplerosis, in glucose-regulated insulin release, 2018
Caucasian-American families, *IL-12p40* and type 1 diabetes in, 2334
C₂-ceramide, PDE3B downregulation by, in adipocytes, 631
CD36, insulin-induced translocation of, 3113
CD38, anti-CD38ab, long-term effects on β -cells, S474
Celiac artery, for islet infusion, in rhesus model, 2135
Cell cycle, G1, events in mesangial hypertrophy, 3290
Cell differentiation
 adipocyte, gene induction by rosiglitazone during, 1042
 insulin, regulation by glucagon, in mouse, 3229
 preadipocyte, inhibition by adipocytes, 1699
Cellular microparticles, in type 1 and type 2 diabetes, 2840
Central adipose depot, insulin resistance in, 755
Central nervous system, glucosensing in, glucokinase and, 2056
C₂-Ceramide, PDE3B downregulation by, in adipocytes, 631
Cerivastatin, in early-state obese type 2 diabetes, 2596
Cerulein, effects on glucose-stimulated insulin secretion, S91
c-Fos, induction by homocysteine, 1180
Chameleons, recombinant targeted, imaging endoplasmic reticulum Ca^{2+} levels with, S190
Chemokine receptors
 CCR5, in islet allograft rejection, 2489
 Th1-associated, expression in type 1 diabetes, 2474
Chicken studies, embryonic proinsulin action and regulation, 770
Childhood diabetes
 early onset, familial risk and genetic susceptibility in, 210
 type 1
 blood enterovirus RNA in, 1964
 carotid artery intima-media thickness in children with, 493
 endothelial dysfunction and folate status in, 2282
 incidence of, 3353
Childhood obesity
 insulin resistance in, S304
 plasma ghrelin levels in, 3408
Children
 African-American, hyperinsulinemia in, 3014
 predictors of insulin resistance syndrome, 204
 weight and insulin resistance in, 3468
young, diabetes-associated autoantibodies in, emergence of, 646
Chloride, Na^+ - K^+ -2Cl⁻ cotransporter, regulation of, in skeletal muscle, 615
Cholesterol metabolites, MSI-1436, weight reduction by, 2099
Cholesteryl ester transfer protein (CETP), *TaqI*B gene polymorphism, and microvascular complications in type 2 diabetes, 871
Chromosome 1q, *KCNJ10* on, 3342
Chromosome 1q42, type 1 diabetes candidate locus mapping, 3318
Chromosome 5q, type 2 diabetes susceptibility mapping, in French family, 3568
Chromosome 8, type 1 diabetes susceptibility locus, S316
Chromosome 11, *Idd4* mapping to, in NOD mice, 215
Chromosome 19q triglyceride linkage, in familial type 2 diabetes, 528
Chromosome 20, type 2 diabetes genes on, search for, S308
Chromosome translocations, balanced, MODY due to, 2329
Chromosome Xp21-22, fat distribution locus, 1989
Chromosome Y, in type 1 diabetes, in Sardinia, 3573
Clones, pancreas set, 1997
c-Myc, effects in β -cells of transgenic mice, 1793
Complement, in diabetic retinopathy, 3499
Complementary DNA, glass microarray PancChip, 1997
Complications of diabetes
 late, genetics of, 1655
 microvascular, CETP gene polymorphisms and, in type 2 diabetes, 871
Congenital lipodystrophy, in Oman, 1291
Conjugated linoleic acid, metabolic effects of, 2037
Connective tissue growth factor, myocardial expression of, after injury, PKC β 2 activation and diabetes and, 2709
Connexin 43, downregulation by glucose, 1565
Continuous glucose monitoring, prevention of hypoglycemia with, 3263
Cooling, leptin, 2434
Corneal repair, naltrexone in, in diabetic rat, 3055
Coronary artery
 calcification of
 LIPC gene and, in type 1 diabetes, 1208
 lipoproteins and, in type 1 diabetes, 1949
 superoxide formation in, glucose and, 2648
 Coronary artery disease
 heart rate variability and, 3524
 IL-1ra genotype and, 3582
 myocardial insulin resistance and, 3020
 Coronary atheromatosis, in type 1 diabetes, 2637
 Coronary atherosclerosis, IL-1ra genotype and, in type 2 diabetes, 3582
 Coronary blood flow, K_{ATP} channels and, in diabetes, 1201
 Coronary microvascular dilation, deferoxamine and, in type 2 diabetes, 813
 Coxsackievirus B4, T-cell response to, 1745
 cp/cp vascular smooth muscle cells, PDE3 and, 1194
 C-peptide, effects on myocardial blood flow and function in type 1 diabetes, 3077
 f-C-peptide, antibodies and, in adult-onset diabetes, 1754
 C-reactive protein, and diabetes risk, 1596

- Cyclic AMP (cAMP), independent K_{ATP} channel action, S29
- Cyclic AMP (cAMP)-sensitive exocytosis, fast, S19
- Cyclooxygenase (COX)
effects in diabetic neuropathy, 2619
release during hyperalgesia, in diabetic rats, 2249
- Cyclooxygenase (COX)-2 gene, inhibition by sodium salicylate, and β -cell function, 1772
- Cytokines
 β Tc-Tet cell apoptosis, cFLIP protection against, 1805
gut, oral agents and, in neonates, 73
- Cytotoxic lymphocytes, gene expression, and islet allograft rejection, in nonhuman primates, 562
- D**
- Deferoxamine, and coronary microvascular dilation, in type 2 diabetes, 813
- Deiodinase, human type 2 Thr92Ala, and insulin resistance, 880
- Dementia risk, type 2 diabetes and APOE gene and, 1256
- Dendritic cells, TX527-treated, T-cell modulation by, 2119
- Depolarization, NF- κ B activation by, S484
- Δ -6 Desaturase, gene downregulation by troglitazone, 1060
- Diabetes, in mice, 825
- Diabetes
ABCA1 dysregulation in, 2922
adrenalectomy effects on, in lipotrophic A-ZIP/F-1 mice, 2113
adult-onset, islet antibodies and β -cell function in, 1754
AGE intake and insulin sensitivity in, in *db/db* mice, 2082
aldose reductase inhibition by NO in, 3095
autoimmune
Fas/Fas ligand interactions in, in mice, 1391
induction by insulin DNA vaccination, in NOD and RIP-B7.1 mice, 3237
leptin and, in female NOD mice, 1356
metalloporphyrin-based SOD mimic protection against, 347
cardiovascular dysfunction in, PARP and, 514
COX release during hyperalgesia in, in rats, 2249
CTGF expression in injured heart and, 2709
delay by DPP-IV inhibition, in male Zucker rats, 1461
early-onset, in Scandinavia, 1609
early-onset childhood, familial risk and genetic susceptibility in, 210
endoplasmic reticulum stress and, S455
fetal exposure to enterovirus and, 2568
genes, search for, S288
glucose metabolism in, normalization by rosiglitazone, in Zucker rats, 2066
heart rate variability and coronary heart disease in, 3524
hepatic expression of microsomal triglyceride transfer protein in, in obese diabetic mice, 1233
HPA response to hypoglycemia in, 1681
hyperglycemia reversal by PTEN inhibition in, in mice, 1028, 1652
IL-10 protective effects in, 1931
iron metabolism and, 2348
 K_{ATP} channels and coronary blood flow in, 1201
late complications of, genetics of, 1655
leucine enhancement of protein synthesis in, in rats, 928
lipotrophic, leptin in, 2727
management of, insulin assay and, S240
maternal, retinoic acid and, 2811
maternal first-trimester enterovirus infection and, 2568
matrix metalloproteinase
induction/activation system in, 3063
maturity-onset
due to balanced translocation, 2329
transcription factor-associated, models of, S333
mitochondrial, sequencing, 2317
nerve thrombomodulin deficiency in, 1957
obesity-induced, in mice, 825
oral agents and, in neonates, 73
in PARP-1-deficient *Adprt1* $-/-$ NOD mice, 1470
phagocytosis in, in NOD mice, 2481
placental amino acid transport in, 2214
prevention by combination sirolimus and IL-2, in NOD mice, 638
renal cell replication in, 1529
renal GH signaling in, in animals, 2270
renal hemodynamics of, renin-angiotensin and NO in, 2025
renal mtDNA damage in, in rats, 1588
all-*trans*-retinoic acid and skin in, in rats, 3510
risk of, C-reactive protein and, 1596
SHIP2 and insulin resistance in, in *db/db* mice, 2387
skin blood flow in, 1214
susceptibility to, *iddm4* locus and, in WF.*iddm4* rats, 3254
therapy for, new strategies, 3141
Diabetes-associated autoantibodies, emergence in young children, 646
Diabetes-promoting food or immunomodulators, oral exposure to, in neonates, 73
Diabetic cardiomyopathy
metallothionein and, 174
myocardial contractility improvement by SERCA2a, 1166
Diabetic corneal repair, naltrexone in, in rat, 3055
Diabetic embryopathy
diacylglycerol production and PKC activity in, 2804
retinoic acid and, 2811
susceptibility to neural tube defects during, 2871
Diabetic hyperphagia, in neuropeptide Y-deficient mice, 778
Diabetic mesangial hypertrophy, G1 cell cycle events in, 3290
Diabetic nephropathy
advanced, *ENPP1/PC-1* polymorphism and, 1188
ALT-946 and aminoguanidine effects against, in (mREN-2)27 rat, 3283
candidate gene screening in, 256
cellular basis of, 506, 1294, 3577
chemokine receptor genotype and, in type 2 diabetes, 238
early
clinical course of, 1572
structural course of, 1580
GLUT1 polymorphisms and, in type 1 diabetes, 2264
IGF-I signaling in, 182
PPAR- γ 2 polymorphism Pro12Ala and, 2653
reduction of AGEs by ACE inhibition in, 3274
TGF- β and, in type 1 diabetes, 3577
tubular epithelial cell activation in, 3532
Diabetic neuropathy
autonomic, myocardial perfusion in, 3306
chronic, dorsal root ganglion morphometry in, 819
COX and acetyl-L-carnitine effects in, 2619
HSV-mediated NGF gene transfer effects in, in mouse, 2227
microcirculation in, 2233
painful, local sympathetic denervation in, 3545
Diabetic phenotype, in myotubes, 921
Diabetic retinopathy
caspase activation in, 1172
complement in, 3499
inhibition by pyridoxamine, 2826
NF- κ B activation in, 2241
pericytes and, 3107
VEGF gene polymorphism and, 1635
Diabetic sexual dimorphism, 2158
Diacylglycerol
and lipid-induced insulin resistance in muscle, 2005
production of, in diabetic embryopathy, 2804
Diacylglycerol acyltransferase, hepatic activity of, regulation of, in rats, 1708
Diacylglycerol acyltransferase 1, overexpression in murine white adipose tissue, 3189
Diet, short-term high-fat, islets after, in mice, S138
Diet resistance, mitochondrial proton leak and UCP3 expression in, 2459
Dietary fat
and insulin secretion, in rats, 1825
regulation of insulin effects on glucose and K^+ uptake in vivo by, 915
Dietary fatty acids, entrapment of, 2684
Diet-induced obesity
blockade by leptin gene therapy, 1729
melanocortin agonist MTII effects in, in mice, 1337
1 α ,25-Dihydroxyvitamin D_3 analog, type 1 diabetes blockade by, 1367
1,25-Dihydroxyvitamin D_3 analog TX527, T-cell modulation by, 2119
Dimethylbiguanide, effects on fibrin polymerization, 189
Dipeptidyl peptidase IV
inhibition by FE 999011, diabetes delay by, in male Zucker rats, 1461
-resistant glucose-dependent insulinotropic polypeptide, in rats, 652
Dipeptidyl peptidase IV inhibitor P32/98 and β -cell function, in Zucker rats, 943
insulin sensitivity improvement with, in VDF Zucker rat, 2677
DNA vaccination, insulin, autoimmune diabetes induction by, in NOD and RIP-B7.1 mice, 3237
Dog studies
fructose and hepatic glucose metabolism, 469
insulin effects on glucose metabolism, 3151
insulin sensitivity and glucagon response to hypoglycemia, 3033
transcapillary insulin transport, 574
Dorsal root ganglion, morphometry in chronic diabetic neuropathy, 819

- E**
 E prostaglandin receptor EP3, inhibition by sodium salicylate, 1772
 EarlyBird Study, weight and insulin resistance in children, 3468
 Ecto-nucleotide pyrophosphatase/phosphodiesterase 1 gene (*ENPP1/PC-1*), polymorphism, and advanced diabetic nephropathy, 1188
 Embryonic proinsulin, action and regulation of, in chick, 770
 Embryopathy, diabetic diacylglycerol production and PKC activity in, 2804
 retinoic acid and, 2811
 susceptibility to neural tube defects during, 2871
 Endocrine pancreas
 functional genomics of, 1997
 in intrauterine growth retardation, 385
 Endoplasmic reticulum. *see also* Sarco/endoplasmic reticulum Ca^{2+} -ATPase (SERCA)
 Ca^{2+} levels, imaging of, with recombinant targeted chameleons, S190
 Endoplasmic reticulum stress, and diabetes, S455
 Endothelial cells, anti-apoptotic effects of hepatocyte growth factor in, 2604
 Endothelial dysfunction
 and folate status, in type 1 diabetes, 2282
 protein kinase C and, 1556
 in type 2 diabetes, 1157
 Endothelin-1, and vascular dysfunction, in insulin resistance, 3517
 Endothelium, IL-10 protective effects on, in diabetes, 1931
 Endurance training, effects on fat oxidation, 2220
 Enterocytes, insulin production by, induction by Pdx-1 and Isl-1, 1398
 Enterovirus
 in blood, in type 1 childhood diabetes, 1964
 fetal exposure to, and diabetes, 2568
 Enzymes, liver, and type 2 diabetes
 pathogenesis, 1889
 Epidermal growth factor receptors, signaling of, AGE receptors and, 1535
 Epithelial cells, tubular, activation of, in diabetic nephropathy, 3532
 17 β -Estradiol, blockade of islet amyloid polypeptide-mediated β -cell loss by, in mice, 2158
 Eukaryotic initiation factor 2 α -kinase 3 (*EIF2AK3*) gene, mutation in Wolcott-Rallison syndrome, 2301
 Exercise
 and caffeine-induced impairment of insulin action, in skeletal muscle, 583
 endurance training, effects on fat oxidation, 2220
 glucose kinetics during
 control of, 1310
 NO and, in type 2 diabetes, 2572
 hypoglycemia during, 1485
 prevention of, 1310
 insulin signaling after, IRS-2 and, in mice, 479
 intense, insulin release in, S271
 Exocytosis
 Ca^{2+} -dependent, fast, cAMP-sensitive, S19
 insulin, S33
 regulated, molecular determinants of, S3
- F**
 Factor analysis, of metabolic syndrome, 2642
 Familial partial lipodystrophy, *PPARG* F388L in, 3586
 Familial risk, in early onset childhood diabetes, 210
 Familial type 2 diabetes
 adiponectin polymorphism and, 37
 glucose-intolerant relatives, skeletal muscle insulin signaling in, 552
 lipid-related traits in, quantitative trait linkage analysis of, 528
 Fas ligand, in NOD diabetes, 1391
 Fas-associated death domain protein (FADD)-like IL-1 β -converting enzyme-inhibitory protein, cellular cFLIP, protective effects against cytokine-induced apoptosis, in β Tc-Tet cells, 1805
 Fasting, pulsatile insulin secretion during, S255
 Fasting plasma glucose
 and heart rate recovery, 803
 impaired, β -cell function in, S265
 Fat. *see also* Adipose tissue
 abdominal, genomewide linkage scan for, 848
 body, distribution of, insulin sensitivity and leptin and, 1005
 dietary
 and insulin secretion, in rats, 1825
 regulation of insulin effects on glucose and K^{+} uptake in vivo by, 915
 distribution of, chromosome Xp21-22 locus for, 1989
 high fat-fed rats, tissue fatty acid metabolism in, 1477
 oxidation of, endurance training and, 2220
 visceral, and insulin resistance and diabetes, 2951
 Fatty acid translocase FAT/CD36, insulin-induced translocation of, 3113
 Fatty acids. *see also* Free fatty acids
 effects on pancreatic islet cells, 1437
 entrapment of, 2684
 handling, and type 2 diabetes, 784
 metabolism of
 and β -cell function, S414
 tissue, in high fat-fed rats, 1477
 in type 2 diabetes, 7
 oxidation of, in obese Zucker rat heart, 2587
 polyunsaturated, dysregulation of ABCA1 by, in diabetes, 2922
 skeletal muscle cell utilization of, PPAR- α and, 901
 FE 999011, DPP-IV inhibition, diabetes delay by, in male Zucker rats, 1461
 Feeding, NPY Y5 receptor in, 2441
 Fenofibrate
 effects on hepatic diacylglycerol acyltransferase, in rats, 1708
 effects on lipid metabolism, in hyperlipidemic type 2 diabetes, 3486
 Ferritin, high-ferritin type 2 diabetes, blood letting in, 1000
 Fetal β -cells, insulin secretion from, NADH shuttles in, 2989
 Fetal GK rats, IGF-2 in, 392
 Fetuin, and insulin sensitivity, in mice, 2450
 Fibrin, islet growth and function in, 3435
 Fibrin polymerization, dimethylbiguanide effects on, 189
 Finnish, calpain-10 gene and type 2 diabetes in, 1644
 FLICE (FADD-like IL-1 β -converting enzyme)-inhibitory protein, cellular cFLIP, protective effects against cytokine-induced apoptosis, in β Tc-Tet cells, 1805
 Folate, endothelial dysfunction and, in type 1 diabetes, 2282
 Food, diabetes-promoting, oral exposure to, in neonates, 73
 Food intake, C75 effects on, 3196
 Forearm, glucose uptake in, 2698
 14-3-3 β protein, PDE3B interactions, 3362
Foxa2 gene, *Pdx1* control by, in β -cells, 2546
FOXO2 gene, and insulin resistance, 3554
 Framingham Offspring Study, genome scan for glycemic traits, 833
 Free fatty acids
CAPN10 gene and, 2658
 -induced insulin resistance, 1907
 and splanchnic glucose metabolism, 301
 and splanchnic glucose uptake in type 2 diabetes, 3043
 and VLDL triglyceride secretion, 1867
 French
 Lim domain homeobox gene *Isl-1* and type 2 diabetes in, 1640
 type 2 diabetes susceptibility mapping to chromosome 5q, 3568
 Fructose
 and counterregulatory responses to hypoglycemia, 893
 and hepatic glucose effectiveness in type 2 diabetes, 606
 and hepatic glucose metabolism, in dogs, 469
- G**
 Gap junctional intercellular communication, reduction by glucose, 1565
 Gastrin, β -cell neogenesis stimulation by, 686
 $G\beta_3$ gene polymorphism C825T, and adipocytes, 1601
 Gene polymorphisms. *see also* Single nucleotide polymorphisms (SNPs)
 adiponectin, and insulin sensitivity, 37
 calpain-10, and type 2 diabetes in South Indians, 1622
 CETP, and microvascular complications in type 2 diabetes, 871
ENPP1/PC-1, and advanced diabetic nephropathy, 1188
FOXO2, and insulin resistance, 3554
 $G\beta_3$ C825T, and adipocytes, 1601
GC gene, 3128
 GLUT1, and diabetic nephropathy in type 1 diabetes, 2264
 Gly972 \rightarrow Arg IRS-1, insulin secretory function of islets carrying, 1419
IGF-I, 2313
 IL-18 promoter, in type 1 diabetes, 3347
IL12B, and type 1 diabetes, in Italians, 1649
 insertion/deletion, ACE, in type 2 diabetes, 1986
 $K_{IR6.2}$, and type 2 diabetes, 875
 $K_{IR6.2}$ Glu23Lys, and response to hyperglycemia, 2854
lck, in type 1 diabetes, 3326
LIPC, and coronary calcification, in type 1 diabetes, 1208
ORP150, and insulin resistance in Pima Indians, 1618
 PKLR, and type 2 diabetes in Northern European Caucasians, 2861
 PPAR- γ 2, 867
 PPAR- γ 2 Pro12Ala, 2341
 and birth size, 2321
 and diabetic nephropathy, 2653
 and type 2 diabetes, 2581
resistin, search for, 863, 1652

- UCP2, and obesity and type 2 diabetes, 3331
- VEGF, and diabetic retinopathy, 1635
- Gene therapy, leptin, blockade of diet-induced obesity by, 1729
- Gene transfer, HSV-mediated NGF, effects in diabetic neuropathy, in mouse, 2227
- Genes
- β -cell, lipid-regulated, 977
 - diabetes, search for, S288
 - expression in adipocytes, TNF- α and, 1319
 - glucose-mediated regulation of in β -cells, S326
 - reversal of, 499
 - induction by rosiglitazone, during adipocyte differentiation, 1042
 - induction by thiazolidinediones, 1042
 - type 1 diabetes, genome-wide search for, in Netherlands, 856
 - type 2 diabetes, 1913
 - chromosome 20 search, S308
- Genetics
- and age-dependent onset of type 1 diabetes, 1346
 - β -cell switch, 2355
 - candidate gene screening in diabetic nephropathy, 256
 - early onset childhood diabetes susceptibility, 210
 - and insulin resistance in small for gestational age, 3473
 - investigating, S288
 - of late diabetic complications, 1655
 - of obesity, S295
 - of type 2 diabetes, S295
- Genome scanning
- for abdominal fat, 848
 - for glycemic traits, 833
 - in Japanese with type 2 diabetes, 1247
 - for obesity, in African-Americans, 541
 - for type 1 diabetes genes, in Netherlands, 856
- Genome sequencing, in mitochondrial diabetes, 2317
- Genomics, functional, of endocrine pancreas, 1997
- Genotype
- ACE, and glomerulopathy, in type 2 diabetes, 251
 - chemokine receptor, and diabetic nephropathy, in type 2 diabetes, 238
 - IL-1ra, and coronary atherosclerosis in type 2 diabetes, 3582
- Gestational diabetes
- insulin signaling in, 19
 - rat model, 1499
 - skeletal muscle insulin resistance in, PI 3-kinase redistribution and, 19
- Ghrelin
- in α -cells, 124
 - and insulin-induced hypoglycemia, 2911
 - plasma levels in childhood obesity, 3408
- Ginseng berry, antidiabetic effects, 1851
- Ginsenoside Re, antidiabetic effects, 1851
- Glibenclamide, uptake in HNF-1 α ^{-/-} hepatocytes, S343
- Gliclazide, glucagon release inhibition by, S381
- Glomerulopathy, ACE genotype and, in type 2 diabetes, 251
- Glucagon
- interstitial, and in situ β -cell secretory state, 669
 - PC2^{-/-} phenotype correction, 398
 - reduced, in type 2 diabetes, 724
- regulation of insulin differentiation by, in mouse, 3229
- release of, inhibition by gliclazide, S381
- response to hypoglycemia, 958
- insulin sensitivity and, in dog, 3033
- Glucagon-like peptide-1
- and glucose-stimulated insulin secretion, S434
 - promotion of β -cell development by, in Goto-Kakizaki rat model, 1443
 - secreting cells, glucose sensing in, 2757
- Glucagon-like peptide-1 receptor, and β -cell K_v channels, S443
- Glucocorticoid receptors
- expression of, and metabolic syndrome, 1066
 - GC gene polymorphism, 3128
- Glucocorticoids
- induced GAD expression, 2764
 - metabolic effects of, troglitazone and, 2895
 - regulation of pyruvate dehydrogenase kinase expression by, 276
- Glucokinase
- β -cell
 - regulation of, S394
 - transcriptional activation by PPAR- γ , 676 - expression of, IRS-1 in, in rat hepatocytes, 1672
 - and glucosensing in central neurons, 2056
 - second activating mutation of, 1240
- Glucolipotoxicity, β -cell, S405
- Glucose
- acetyl-CoA carboxylase activation by, insulin release and, 2536
 - connexin 43 downregulation by, 1565
 - DP IV-resistant insulinotropic polypeptide dependent on, in rats, 652
 - fasting
 - and heart rate recovery, 803
 - impaired, β -cell function in, S265 - gene regulation mediated by in β -cells, S326
 - reversal of, 499
 - high, and prostacyclin synthase nitration, 198
 - homeostasis of, in type 1 diabetes, 951
 - hormone-sensitive lipase regulation by, 293
 - insulin secretion induced by β -cell protein kinases and, S68
 - cataplerosis in, 2018
 - GLP-1 effects on, S434
 - intracellular pH and, in rat islets, 105
 - NADH shuttles in, in fetal β -cells, 2989
 - stimulus/secretion coupling factors in, S389
 - metabolism of
 - in early renal failure, 1226
 - GSK-3 inhibitor effects on, in Zucker rats, 2903
 - hepatic, fructose and in dog studies, 469
 - in type 2 diabetes, 606
 - insulin effects on
 - in brain, 3384
 - in dog, 3151 - normalization by rosiglitazone, in Zucker fatty rats, 2066
 - splanchnic, FFAs and glycerol effects on, 301
 - and UCP-2, in gluco- and lipotoxicity, 2749
 - and phase insulin release, S53
 - production estimates, errors in, 3170
 - production of
 - control of, during exercise, 1310
 - inhibition by ICV oleic acid, 271
- storage in liver, insulin effects on, 1663
- uptake of
- during exercise, NO and, in type 2 diabetes, 2572
 - insulin effects on, 915
 - liver, insulin effects on, 1663
 - muscle, 2698
 - adrenergic regulation of, during hypoglycemia, 734
 - lipid infusion and, 1138
 - rosiglitazone and, in type 2 diabetes, 3479
 - splanchnic, free fatty acids and, in type 2 diabetes, 3043
 - and vascular superoxide formation, 2648
- Glucose intolerance
- of aging, visceral fat and, 2951
 - PAX6 mutation and, 224
 - skeletal muscle insulin signaling in, with type 2 diabetes, 552
- Glucose monitoring, continuous, prevention of hypoglycemia with, 3263
- Glucose sensing
- in central neurons, glucokinase and, 2056
 - in glucagon-like peptide-1-secreting cells, 2757
- Glucose sensitivity, in *P. obesus* islets, 2552
- Glucose tolerance
- β -cell function and, 2170
 - calpain-10 gene and, in British, 247
 - IA-2 gene and, 1842
 - impaired
 - CAPN10 polymorphism and, in South Indians, 1622
 - insulin release in, S227
 - insulin resistance in myotubes in, 1052
 - oral minimal model in, S227
 - oxidized LDL in, 3102
- Glucose transport, regulation by antidiabetic therapy, in type 2 diabetes, 30
- Glucose transporter 1, gene polymorphisms, and diabetic nephropathy in type 1 diabetes, 2264
- Glucose transporter 4
- activation in GLUT4myc-expressing mice, 2719
 - activity, insulin resistance and, 2090
- Glucotoxicity, glucose metabolism and UCP-2 in, 2749
- Glutamate, in insulin secretion kinetics, S99
- Glutamate dehydrogenase, and insulin secretion, 712
- Glutamic acid decarboxylase, glucocorticoid-induced expression of, 2764
- Glutamic acid decarboxylase GAD2, in type 1 diabetes, 2866
- Glutamic acid decarboxylase GAD65 tetramers, T-cell phenotyping by, 1375
- Glutaminolysis, and insulin secretion, S421
- Glycation
- low-density lipoprotein, STAT5 activation by, 3311
 - mesangium matrix, effects on MMP activity, 2612
- Glycemic control
- chronic hyperglycemia and, in type 2 diabetes, 2179
 - genome scan for, 833
 - glycogen synthesis and, in type 2 diabetes, 462
- Glycerol, and splanchnic glucose metabolism, 301
- Glycerol channels, hepatic, insulin-mediated suppression of, 2915
- Glycogen metabolism

- AICAR and, in skeletal muscle, 567
glycemic control and, in type 2 diabetes, 462
hepatic, in type 1 diabetes, 49
Glycogen synthase
in muscle cell culture, 921
phosphorylation and inactivation by
AICA-riboside, in rat, 284
Glycogen synthase kinase 3, inhibition of, in
skeletal muscle, 2190
Glycogen synthase kinase 3 inhibitors, effects
on glucose metabolism, in Zucker rats,
2903
Granule pools, and biphasic insulin secretion,
S83
Granules, secretory, and first-phase insulin
secretion, S74
Growth factor receptors, AGE formation in,
1535
Growth hormone, renal signaling in diabetes,
in animals, 2270
Growth hormone secretagogue-responsive
neurons, leptin, insulin and, 3412
Growth retardation, intrauterine, endocrine
pancreas in, 385
Guinea pig studies, synaptic adaptation to
hypoglycemia, 430, 3350
Gut cytokines, oral agents and, in neonates,
73
- H**
Haplotype
adiponectin locus, and insulin resistance,
2306
IL4R, and type 1 diabetes, 3336
Heart
fatty acid oxidation in, in obese Zucker rat,
2587
functional improvement by SERCA2a, in
diabetes, 1166
injured, CTGF expression in, PKC β 2
activation and diabetes and, 2709
nitrotyrosine in, acute hyperglycemia and,
in rats, 1076
rosiglitazone effects in
protective, 1507
in Zucker fatty rats, 1110
Heart rate recovery, fasting plasma glucose
and, 803
Heart rate variability, and coronary heart
disease in diabetes, 3524
Heat shock protein 72, mRNA levels, in type 2
diabetes, 1102
Hemodynamic insulin resistance, in Zucker
rats, 3492
Hepatic lipase gene (*LIPC*), and coronary
calcification, in type 1 diabetes, 1208
Hepatocarcinoma-intestine-pancreas/
pancreatic-associated protein (HIP-PAP),
as T-cell autoantigen, in NOD mice, 339
Hepatocyte growth factor
anti-apoptotic effects in endothelial cells,
2604
 β -cell function and human islet cell mass,
3435
Hepatocyte nuclear factor-1 α
 β -cell growth modulation by, 1785
deficiency of, glibenclamide uptake in, S343
dominant-negative, effects in β -cells, 114
p300 transcriptional co-activator for, 1409
Hepatocyte nuclear factor-4 α , novel Trip3
coactivator, 910
Hepatocytes
benfluorex effects in, in rat, 2363
HNF-1 α ^{-/-}, glibenclamide uptake in, S343
insulin resistance in, IL-6 and, 3391
SREBP-1c expression in, IRS-1 in, in rat,
1672
HERITAGE Family Study, genomewide
linkage scan for abdominal fat, 848
Herpes simplex virus-mediated NGF gene
transfer, effects in diabetic neuropathy, in
mouse, 2227
Hexosamine flux, NF- χ B-dependent promoter
activation by, 1146
High-density lipoprotein, PLTP activity and, in
type 1 diabetes, 3300
Hispanic women, prevention of type 2
diabetes in, 2796
Homeobox
Lim domain gene Isl-1, and type 2 diabetes,
1640
pancreatic duodenal Pdx-1, combined
expression with ISL-1, and insulin
production by enterocytes, 1398
Homocysteine, macrophage lipoprotein lipase
induction by, 1180
Honolulu-Asia Aging Study, type 2 diabetes,
APOE gene, and dementia risk, 1256
Hormone-sensitive lipase, regulation by
glucose, 293
Hormone-sensitive lipase-absent adipocytes,
lipolysis in, 3368
Human lymphocyte antigen
Asian-specific, and susceptibility to type 1
diabetes, 545
class II GAD65 tetramers, T-cell
phenotyping by, 1375
Human lymphocyte antigen-DQ/DR, and
susceptibility to type 1 diabetes, 545
Human umbilical vein endothelial cells,
hyperglycemia-induced apoptosis in,
inhibition by AMP-activated protein
kinase, 159
Humoral regulation, of resistin, 1737
11 β -Hydroxysteroid dehydrogenase type 1,
regulation by liver X receptors, 2426
Hyperalgesia, COX release during, in diabetic
rats, 2249
Hyperglycemia
acute
insulin secretion effects, S130
and nitrotyrosine in heart, in rats, 1076
 β -cell neogenesis during, in rats, 1834
and capacitative Ca²⁺ entry, 3461
chronic
and glycemic control, in type 2 diabetes,
2179
islet stress gene activation during, 413
-induced apoptosis
inhibition by AMP-activated protein
kinase, in HUVECs, 159
in mouse myocardium, 1938
and K_{IR}6.2 polymorphism Glu23Lys, 2854
reversal by PTEN inhibition, in diabetic
mice, 1028, 1652
Hyperinsulinemia
in African-American children, 3014
insulin-induced capillary recruitment
during, 1515
skeletal muscle microvascular recruitment
by, 42
Hyperinsulinemic hypoglycemia, due to
glucokinase mutation, second, 1240
Hyperketonemia, and TNF- α , in type 1
diabetes, 2287
Hyperlipidemia
effects on insulin secretion, in rats, 662
fenofibrate effects on lipid metabolism in
type 2 diabetes with, 3486
Hypermotility, PDE3 and, in *cp/cp* vascular
smooth muscle cells, 1194
Hyperperfusion, islet, during prediabetic
phase, in OLETF rats, 2530
Hyperphagia, diabetic, in neuropeptide
Y-deficient mice, 778
Hypertension
IGFBP-1 levels and, 2629
and renal cell replication in diabetes, 1529
Hypertrophy, mesangial, G1 cell cycle events
in, 3290
Hypoglycemia
counterregulatory responses to, fructose
and, 893
diabetic HPA response to, insulin and, 1681
during exercise, 1485
prevention of, 1310
glucagon response to, 958
insulin sensitivity and, in dog, 3033
hyperinsulinemic, due to glucokinase
mutation, second, 1240
incretin effects on insulin secretion, SUR1
null islets, 3440
insulin-induced, ghrelin and, 2911
muscle glucose uptake during, adrenergic
regulation of, 734
risk assessment, with continuous glucose
monitoring system, 3263
synaptic adaptation to, in guinea pig, 430,
3350
Hypoglycemia unawareness, theophylline and,
in type 1 diabetes, 790
Hypoglycemia-associated autonomic failure, in
advanced type 2 diabetes, 724
Hypothalamo-pituitary-adrenal axis, response
to hypoglycemia in diabetes, 1681
Hypothermia, leptin effects in, 2434
- I**
Ian4 gene, frameshift mutation in
diabetes-prone BB rat, 1972
Idd4 gene, mapping to chromosome 11, in
NOD mice, 215
Iddm1 gene, positional candidate *Ian4*,
frameshift mutation in diabetes-prone BB
rat, 1972
iddm4 gene locus, and diabetes susceptibility
in WF.*iddm4* rats, 3254
I κ B- α , and lipid-induced insulin resistance in
muscle, 2005
Imaging
with recombinant targeted chameleons, of
endoplasmic reticulum Ca²⁺ levels,
S190
two-photon excitation, of pancreatic islets,
S25
Imidazoline, insulinotropic compounds, S448
Immunomodulators, diabetes-promoting, oral
exposure to, in neonates, 73
Indinavir, peripheral insulin resistance
induction by, in rats, 937
Indoleamine 2,3-dioxygenase, islet graft
survival prolongation by, 356
Infection, enterovirus, maternal first-trimester,
2568
Inflammation
chronic, and type 2 diabetes, 1131, 1157
instant blood-mediated reaction, abrogation
by Melagatran, 1779
Tanis and, 1859
and type 2 diabetes, 455
Injury, myocardial, CTGF expression after,
PKC β 2 activation and diabetes and, 2709
Inositol phosphatase 2, SH2-containing
and insulin resistance, in diabetic *db/db*
mice, 2387
SHIP2 mutations, in type 2 diabetes, 2012

- INPPL1 gene mutations, in type 2 diabetes, 2012
- INS-1 cells
apoptosis of, prevention by PKC δ inhibition, 317
- IGF-1 regulation by HNF-1 α in, 1785
- Insulin
actin disorganization by, in vascular smooth muscle cells, 2256
- activity of
AICAR effects on, in high-fat-fed rats, 2886
- in lipodystrophy, 3163
- acute response, and type 2 diabetes risk, 1263
- acylated, in vivo kinetics of, 762
- and α -cell response to hypoglycemia, in dog, 3033
- and brain glucose metabolism, 3384
- capillary recruitment induced by, 1515
- in muscle, 42
- childhood, and insulin resistance syndrome, 204
- chronic effects on adipose tissue, 1493
- clearance of, in hyperinsulinemia in African-American children, 3014
- and diabetic HPA response to hypoglycemia, 1681
- DNA vaccination, autoimmune diabetes induction by, in NOD and RIP-B7.1 mice, 3237
- effects on glucose and K⁺ uptake in vivo, 915
- effects on glucose metabolism, in dog, 3151
- effects on hepatic glucose handling, 1663
- effects on intracellular lipid content, in type 2 diabetes, 3025
- exocytosis of, S33
- expression in proinsulin 2 knockout NOD mice, S489
- FAT/CD36 translocation induced by, 3113
- and GHS-responsive neurons, 3412
- hepatic glycerol channel suppression mediated by, 2915
- hypoglycemia induced by, ghrelin and, 2911
- and left ventricular structure and function, in American Indians, 1543
- plasma level oscillations
regulation of, S171
- in vivo oxygen and, 699
- production of
combined with insulin therapy, in rats, 130
- by enterocytes, induction by Pdx-1 and Isl-1, 1398
- by skeletal muscle, in mice, 704
- regulation of, S285
- by antidiabetic therapy, in type 2 diabetes, 30
- regulation of Na⁺-K⁺-2Cl⁻ cotransporter by, in skeletal muscle, 615
- regulation of pyruvate dehydrogenase kinase expression by, 276
- response to glucose, and β -cell protein kinases, S68
- secretion of
acetyl-CoA carboxylase activation by glucose and, 2536
- acute hyperglycemia and, S130
- age and, S234
- assessment by modeling, S221
- in β -cells, S1
- β -cell mitochondria and, S37
- biphasic, S60
- granule pools and, S83
- nonionic signaling for, S96
- protein acylation and, S91
- calcium oscillations and, 2773
- cAMP and K_{ATP} channel-independent action, S29
- clinical characterization of, S122
- dietary fat and, in rats, 1825
- early, in type 2 diabetes, S262
- early defects in, in low birth weight, 1271
- estimation of, S240
- first-phase
secretory granules and, S74
- in type 2 diabetes, S117
- glucose-stimulated
cataplerosis in, 2018
- cerulenin effects on, S91
- GLP-1 effects on, S434
- intracellular pH and, in rat islets, 105
- stimulus/secretion coupling factors in, S389
- glutamate dehydrogenase and, 712
- glutaminolysis and, S421
- in Gly972→Arg IRS-1 islets, 1419
- in hyperinsulinemia in African-American children, 3014
- hyperlipidemia effects on, in rats, 662
- IA-2 gene and, 1842
- in impaired glucose tolerance, S227
- in intense exercise, S271
- interstitial glucagon and, 669
- in IRS-1 and IRS-2 carriers, 884
- kinetics of, in rat and mouse, S99
- KIR6.2 variant E23K and, S135
- L-783,281 effects on, S43
- miniglucagon and, 406
- NADH shuttles in, in fetal β -cells, 2989
- oscillations in
Ca²⁺ oscillations and, S177
- [Ca²⁺]_i and, S144
- ultradian, S258
- phasic
effects of, S103
- metabolic effects in type 2 diabetes, S109
- modeling, S53
- PI 3-kinase activity and, 87
- in postmenopausal women, S202
- promotion by L-783,281, S50
- protein kinase-independent potentiation of, SUR1 null islets and, 3440
- pulsatile, S245
- during fasting, S255
- in type 2 diabetes, 988
- regulation of, 2669
- by sulfate, in rat, 2514
- stimulation by ghrelin, 124
- stimulation by NO, 3450
- stimulation by sulfonylurea, S368
- succinate mechanism of, 2669
- in SUR1KO mice, 3440
- in UCP2-knockout mice, 3211
- signaling
after exercise, IRS-2 and, in mice, 479
- in GDM, 19
- in IGF-I-deficient brown adipocytes, 743
- potentiation by PPAR- γ agonists, in Zucker obese rats, 2412
- and SERCA, in β -cells, S427
- in skeletal muscle
caffeine effects on, 583
- after co-culture with adipocytes, 2369
- in glucose-intolerant relatives with type 2 diabetes, 552
- thymic levels, T-cell selection modulation by, 1383, 2665
- transcapillary transport of
in dog hindlimb, 574
- in obesity, 2742
- TRPC genes in cells secreting, S183
- vasodilating effects on myocardial blood flow, 1125
- Insulin assay, and management of diabetes, S240
- Insulin B-chain (9–23) peptide, altered-peptide ligand NBI-6024 of, in type 1 diabetes, 2126
- Insulin differentiation, regulation by glucagon, in mouse, 3229
- Insulin gene transcription, NFAT-mediated, 691
- Insulin receptor substrate IRS-1
Gly972→Arg polymorphism, insulin secretory function of islets carrying, 1419
- insulin secretion in carriers of, 884
- in SREBP-1c gene expression, in rat hepatocytes, 1672
- Insulin receptor substrate IRS-2
insulin secretion in carriers of, 884
- and insulin signaling after exercise, in mice, 479
- signal transduction, activation by IGF-1, 966
- Insulin receptors
signaling of, TNF- α effects on, in skeletal muscle, 1921
- tyrosine phosphorylation, skeletal muscle, plasma adiponectin levels and, 1884
- Insulin resistance
acetyl-CoA carboxylase and, in rats, 1548
- adiponectin locus and, 2306
- of aging, visceral fat and, 2951
- amino acid-induced, in skeletal muscle, 599
- CAPN10 gene and, 2658
- in central adipose depot, 755
- endothelin-1 and vascular dysfunction in, 3517
- FOXO2 and, 3554
- free fatty acid-induced, 1907
- and GLUT4 activity, 2090
- hemodynamic, in Zucker rats, 3492
- IL-6 and, in hepatocytes, 3391
- lipid-induced, in muscle, 2005
- in morbid obesity, 144
- myocardial, type 2 diabetes with CAD and, 3020
- in myotubes, in impaired glucose tolerance, 1052
- in obese children, S304
- ORP150 polymorphism and, in Pima Indians, 1618
- peripheral, induction by indinavir, in rats, 937
- in pregnancy, TNF- α and, 2207
- SHIP-2 and, in diabetic *db/db* mice, 2387
- skeletal muscle, PI 3-kinase redistribution and, in GDM, 19
- in small for gestational age, genetic effects on, 3473
- steroid-induced, troglitazone effects in, 2895
- Thr92Ala DIO2 and, 880
- TNF- α and, 3176
- weight and, in children, 3468
- Insulin Resistance Atherosclerosis Study
chronic inflammation and type 2 diabetes, 1131
- factor analysis of metabolic syndrome, 2642
- PAI-1 levels and type 2 diabetes, 1131
- proinsulin, acute insulin response, and type 2 diabetes risk, 1263
- Insulin resistance syndrome
AICAR effects on, in rat, 2199
- and atherosclerosis, 3069

- childhood predictors of, 204
linkage analysis of factors in
Mexican-Americans, 841
- Insulin sensitivity**
adiponectin polymorphism and, 37
adipose tissue blood flow and, 2467
AMP-activated protein kinase and, in
high-fat-fed rats, 2886
directly measured, factor analysis of
metabolic syndrome with, 2642
fetuin and, in mice, 2450
and glucagon response to hypoglycemia, in
dog, 3033
hepatic, alanine aminotransferase and, 1889
in hyperinsulinemia in African-American
children, 3014
improvement with P32/98, in VDF Zucker
rat, 2677
iron depletion and, 1000
leptin and, 1005
plasma adiponectin levels and, 1884
in postmenopausal women, S202
reduced AGE intake and, in *db/db* mouse,
2082
white blood cell count and, 455
- Insulin therapy**
combined with basal hepatic insulin
production, in rats, 130
infusion, metabolic effects of, 3025
- Insulin-like growth factor-1**
deficiency of, insulin signaling in, in brown
adipocytes, 743
gene polymorphism, 2313
IRS-2-mediated signal transduction
activation by, and β -cell proliferation,
966
regulation by HNF-1 α , in INS-1 cells, 1785
signaling in diabetic nephropathy, 182
- Insulin-like growth factor-2**, in fetal GK rats,
392
- Insulin-like growth factor binding protein-1**,
circulating levels, and macrovascular
disease, 2629
- Insulinoma**, NF- κ B activation by
depolarization in, in MIN6 cells, S484
- Insulinoma-associated tyrosine
phosphatase-like IA-2 gene**, in glucose
tolerance and insulin secretion, 1842
- Insulinoma-associated tyrosine
phosphatase-like IA-2 protein**, expression
in pancreatic islets, 2982
- Insulinotropic imidazoline compounds**, S448
- α 2 β 1 Integrin**, protective effects against
atherosclerosis, in type 2 diabetes, 1523
- Interleukin-1 receptor antagonist genotype**,
and coronary atherosclerosis in type 2
diabetes, 3582
- Interleukin-1 β -converting enzyme**, FADD-like,
cellular cFLIP, protective effects against
cytokine-induced apoptosis, in β Tc-Tet
cells, 1805
- Interleukin-2**, combined with sirolimus,
prevention of NOD diabetes by, 638
- Interleukin-4**, receptor gene *IL4R* haplotypes,
and type 1 diabetes, 3336
- Interleukin-6**, and insulin resistance in
hepatocytes, 3391
- Interleukin-10**
association with metabolic syndrome and
type 2 diabetes, 1088
protective effects in diabetes, 1931
- Interleukin-12**
IL12B gene polymorphism, and type 1
diabetes, in Italians, 1649
IL-12p40 gene, and type 1 diabetes, in
Caucasian-American families, 2334
- Interleukin-18**, promoter polymorphisms, in
type 1 diabetes, 3347
- Intestinal epithelioid IEC-6 cells**,
PDX-1-expressing, 2505
- Intrauterine growth retardation**, endocrine
pancreas in, 385
- Iron depletion**, and insulin sensitivity, 1000
- Iron metabolism**, and diabetes, 2348
- Ischemia**, myocardial, in type 2 diabetes, 808
- Islet amyloid polypeptide**, -mediated loss of
 β -cells, blockade by 17 β -estradiol, in
mice, 2158
- Islet factor 1 (Isl-1)**, combined expression
with Pdx-1, and insulin production by
enterocytes, 1398
- 3-Isopropylamino-7-methoxy-4H-1,2,4-
benzothiadiazine 1,1-dioxide**, novel
Kir6.2/SUR1 channel opener, functional
studies, 1896
- Isoproterenol**, regulation of Na⁺-K⁺-2Cl⁻
cotransporter by, in skeletal muscle, 615
- Italians**, *IL12B* polymorphism and type 1
diabetes in, 1649
- J**
Janus kinase JAK/STAT signaling, TGF- β and,
in mesangial cells, 3505
- Japanese**
with severe obesity, novel homozygous
MC4R missense mutation in, 243
with type 2 diabetes
adiponectin gene and, 536, 1294
CETP gene polymorphisms and
microvascular complications in, 871
chemokine receptor genotype and
diabetic nephropathy in, 238
genome scanning in, 1247
- K**
***KCNJ10* gene**, and type 2 diabetes in Pima
Indians, 3342
- Ketosis**, and TNF- α , in type 1 diabetes, 2287
- Kidney**
cell replication in diabetes, 1529
GH signaling in, in diabetic animals, 2270
hemodynamics in diabetes, 2025
mtDNA damage in, in diabetic rats, 1588
structure and function in type 1 diabetes,
506, 1294
VEGF blockade effects on, in *db/db* mice,
3090
- Kidney failure**, early, glucose metabolism in,
1226
- L**
L-783,281
effects on [Ca²⁺]_i and insulin secretion, S43
promotion of insulin release by, S50
- Late complications of diabetes**, genetics of,
1655
- lck* gene polymorphisms**, in type 1 diabetes,
3326
- LEA297 (BMS-224818)**, protection of
allogeneic islets with, 265
- Left ventricle structure and function**, insulin
levels and, in American Indians, 1543
- Leiden 85-Plus Study**, IL-10 association with
metabolic syndrome and type 2 diabetes,
1088
- Leptin**
and autoimmune diabetes, in female NOD
mice, 1356
cooling by, 2434
gene mutations, 1980, 2665
gene therapy, blockade of diet-induced
obesity by, 1729
- and GHS-responsive neurons, 3412
and insulin sensitivity, and body fat
distribution, 1005
in lipotrophic diabetes, 2727
NO release mechanisms, 168
production by omental, 2029
- Leptin receptor**
gene mutations, 1980, 2665
serum, regulation of, 1980, 2665
soluble, regulation of, 2105
- Leptin resistance**
during aging, 1016
in agouti yellow obese mice, 439
- Leucine**, protein synthesis enhancement by, in
diabetic rats, 928
- Lilly Lecture 2002**, 3141
- Lim domain homeobox gene Isl-1**, and type 2
diabetes, 1640
- Linkage analysis**
genomewide linkage scan for abdominal fat,
848
of insulin resistance syndrome factors, in
Mexican-Americans, 841
- Linoleic acid**, conjugated, metabolic effects of,
2037
- Lipase**
hepatic lipase gene (*LIPC*), and coronary
calcification, in type 1 diabetes, 1208
hormone-sensitive, regulation by glucose,
293
- Lipid-induced insulin resistance**, in muscle,
2005
- Lipid-related traits**, in familial type 2 diabetes,
quantitative trait linkage analysis of, 528
- Lipids**
 β -cell genes regulated by, 977
effects on capillary recruitment and muscle
glucose uptake, 1138
intracellular content, insulin effects on, in
type 2 diabetes, 3025
in lipodystrophy, 3163
metabolism of
conjugated linoleic acid effects on, 2037
fenofibrate and, in hyperlipidemic type 2
diabetes, 3486
myocyte utilization of, PPAR- α and, 901
- Lipoatrophy**
adrenalectomy effects in, in A-ZIP/F-1 mice,
2113
leptin in, 2727
- Lipodystrophy**
congenital, in Oman, 1291
lipid and insulin action in, 3163
partial, familial, *PPARG* F388L in, 3586
- Lipogenesis**
regulation by insulin, in adipose tissue, 1493
regulation by PTP1B, 2405
- Lipolysis**
adrenoceptor-mediated, G β ₃ gene
polymorphism C825T and, 1601
in HSL-absent adipocytes, 3368
by omental, 2029
in polycystic ovary syndrome, 484
regulation by insulin, in adipose tissue, 1493
skeletal muscle, regional, 3376
stimulation by TNF- α , 2929
- Lipoprotein lipase**
induction by homocysteine, 1180
PPAR- γ 2 gene polymorphism and, 867
- Lipoproteins**, and coronary artery calcification
in type 1 diabetes, 1949
- Lipotoxicity**
glucose metabolism and UCP-2 in, 2749
metformin and, S134
- Liver**

- basal insulin production by, combined with insulin therapy, in rats, 130
 diacylglycerol acyltransferase activity in, regulation of, in rats, 1708
 glucose handling, insulin effects on, 1663
 glucose metabolism, fructose and, in dog studies, 469
 glycerol channels in, insulin-mediated suppression of, 2915
 glycogen metabolism by fructose and
 in dog studies, 469
 in type 2 diabetes, 606
 in type 1 diabetes, 49
 insulin sensitivity in, alanine aminotransferase and, 1889
 intracellular lipid content, insulin effects on, in type 2 diabetes, 3025
 microsomal triglyceride transfer protein expression in, in obese diabetic mice, 1233
 Liver enzymes, and type 2 diabetes pathogenesis, 1889
 Liver transplantation, anhepatic phase, amino acid kinetics during, 1690
 Liver triglyceride, rosiglitazone effects on, in type 2 diabetes, 797
 Liver X receptor, 11 β -HSD-1 regulation by, 2426
 Liver X receptor LXR α , conjugated linoleic acid effects on, 2037
 Local sympathetic denervation, in painful diabetic neuropathy, 3545
 Low birth weight, early defects in insulin secretion in, 1271
 Low-density lipoprotein
 glycated, STAT5 activation by, 3311
 oxidized, in impaired glucose tolerance, 3102
 PLTP activity and, in type 1 diabetes, 3300
 LY465608, tailored therapy for metabolic syndrome with, 1083
 Lymphocytes, cytotoxic, gene expression, and islet allograft rejection, in nonhuman primates, 562
 Lys^{B30}-tetradecanoyl des (B30) human insulin. *see* NN304
- M**
 Macrophage chemoattractant protein-1 (MCP-1/CCL2), production and secretion by pancreatic islets, 55
 Macrophage lipoprotein lipase, induction by homocysteine, 1180
 Macrovascular disease, IGFBP-1 levels and, 2629
 Major histocompatibility complex
 antidiabetic, T-cell tolerance by, 325
 new MHC-linked loci in autoimmunity, 2141
 Mammalian target of rapamycin (mTOR), regulation by β -cells, 2877
 Maternal diabetes, retinoic acid and, 2811
 Maternal first-trimester enterovirus infection, and diabetes, 2568
 Matrix metalloproteinase
 activity of, mesangium matrix glycation and, 2612
 adipose tissue expression in obesity, 1093
 induction/activation system, 3063
 Maturity-onset diabetes of the young
 due to balanced translocation, 2329
 transcription factor-associated, models of, S333
 McGarry, John Denis, tribute to, 1651
- MEDICA 16, acetyl-CoA carboxylase inhibition and plasma triacylglycerol level reduction by, in rats, 1548
 Melagatran, instant blood-mediated inflammatory reaction abrogation by, 1779
 Melanocortin agonist MTII, effects in diet-induced obese mice, 1337
 Melanocortin-4 receptor
 antagonism of, obesity induced by, in rats, 152
 missense mutations, novel homozygous, 243
 Men, with low birth weight, early defects in insulin secretion in, 1271
 Mesangial cells, TGF- β and JAK-STAT signaling in, 3505
 Mesangial hypertrophy, G1 cell cycle events in, 3290
 Mesangium matrix, glycation of, effects on MMP activity, 2612
 Messenger RNA, vitamin D receptor levels, in Bangladeshi Asians, 2294
 Metabolic oscillations
 in β -cells, S152
 in pancreas, 699
 Metabolic syndrome
 factor analysis of, 2642
 glucocorticoid receptor expression and, 1066
 IL-10 and, 1088
 tailored therapy for, 1083
 and type 2 diabetes incidence, 3120
 Metalloporphyrin-based SOD mimic, protective effects against autoimmune diabetes, 347
 Metallothionein, and diabetic cardiomyopathy, 174
 Metformin
 and adipose tissue, in type 2 diabetes, 30
 AMP-activated protein kinase cascade activation, 2420
 in type 2 diabetes, 2074
 intrahepatic effects, in rats, 139
 and lipotoxicity, S134
 Mexican-Americans, insulin resistance syndrome factors in, 841
 Microarrays, PancChip, 1997
 Microcirculation, of injured diabetic nerve, 2233
 Microparticles, cellular patterns in type 1 and type 2 diabetes, 2840
 Microsomal triglyceride transfer protein, hepatic expression of, in obese diabetic mice, 1233
 Microvascular complications, CETP gene polymorphisms and, in type 2 diabetes, 871
 Microvascular dilation, coronary, deferoxamine and, in type 2 diabetes, 813
 Microvascular recruitment, skeletal muscle, in hyperinsulinemia, 42
 MIN6 cells, NF- κ B activation by depolarization in, S484
 Miniature swine studies, vascularized islet transplantation, 3220
 Miniglucagon (glucagon 19–29), and insulin secretion, 406
 Mitochondria
 β -cell, and insulin secretion, S37
 skeletal muscle, dysfunction in type 2 diabetes, 2944
 Mitochondrial diabetes, sequencing, 2317
 Mitochondrial DNA damage, in diabetic kidney, in rats, 1588
 Mitochondrial proton leak, in diet resistance, 2459
- Monkey studies, PKC- $\zeta/\eta/\iota$ activation in diabetic monkeys, 2936
 Monocytes, superoxide anion release in, inhibition by α -tocopherol, 3049
 Morbid obesity, weight loss and long-chain acyl-CoAs in, 2959
 Mouse studies
 agouti yellow obese mice, leptin resistance in, 439
 Ahsg-null mice, insulin sensitivity in, 2450
 A-ZIP/F-1 mice, adrenalectomy effects in, 2113
 caspase activation in diabetic retinopathy, 1172
 db/db mice
 reduced AGE intake and insulin sensitivity in, 2082
 renal effects of VEGF blockade in, 3090
 SHIP2 and insulin resistance in, 2387
 DGAT1 overexpression in white adipose tissue, 3189
 diacylglycerol production and PKC activity in diabetic embryopathy, 2804
 17 β -estradiol blockade of IAPP-mediated β -cell loss, 2158
 GLUT4myc-expressing mice, GLUT4 activation in, 2719
 HNF-1 α -deficient mice, glibenclamide uptake in, S343
 HSV-mediated NGF gene transfer effects in diabetic neuropathy, 2227
 humoral regulation of resistin, 1737
 hyperglycemia reversal by PTEN inhibition, 1028, 1652
 hyperglycemia-induced myocardial apoptosis, 1938
 insulin differentiation regulation by glucagon, 3229
 insulin secretion kinetics, S99
 IRS-2 and insulin signaling after exercise, 479
 L-783,281 promotion of insulin release from pancreatic islets, S50
 leptin double KO mice, Y2 receptor and, 3420
 melanocortin agonist MTII effects in diet-induced obesity, 1337
 neuropeptide Y-deficient mice, diabetic hyperphagia in, 778
 NOD mice
 autoimmune diabetes induction by insulin DNA vaccination, 3237
 diabetes prevention by combination sirolimus and IL-2, 638
 Fas/Fas ligand interactions in, 1391
 HIP-PAP as T-cell autoantigen in, 339
 lidd4 mapping to chromosome 11, 215
 IGF-1 signaling in diabetic nephropathy, 182
 leptin and autoimmune diabetes in, 1356
 new MHC-linked loci in autoimmunity, 2141
 PARP-1-deficient *Adprt1* $^{-/-}$, 1470
 phagocytosis in, 2481
 proinsulin 2 knockout, S489
 obese diabetic mice, hepatic expression of microsomal triglyceride transfer protein in, 1233
 obesity-induced diabetes (diabesity), 825
 pancreatic islets after short-term high-fat diet, S138
 PC2^{-/-} phenotype correction by glucagon, 398
 proinsulin 2 knockout NOD mice, S489
 Reg knockout mice, production and characterization of, S478

- RIP-B7.1 mice, autoimmune diabetes
induction by insulin DNA vaccination,
3237
- secretory granules and first-phase insulin
secretion, 574
- skeletal muscle production of insulin, 704
- transgenic mice, c-Myc overexpression
effects in β -cells, 1793
- UCP2-knockout mice, insulin secretion from
 β -cells, 3211
- vascular density of transplanted pancreatic
islet cells, 1362
- MSI-1436, weight reduction by, 2099
- Multiple-meal tests, assessment of insulin
secretion by modeling in, S221
- Muscle. *see also* Skeletal muscle; Smooth
muscle
glucose uptake in, 2698
adrenergic regulation of, in hypoglycemia,
734
lipid infusion and, 1138
glycogen synthase in, 921
hemodynamic insulin resistance in, in
Zucker rats, 3492
insulin-mediated capillary recruitment in, 42
lipid-induced insulin resistance in, 2005
SREBP-1c expression in, in rat, 1722
- Muscle proteins, synthesis of, in type 2
diabetes, 2395
- Muscle triglyceride, rosiglitazone effects on, in
type 2 diabetes, 797
- Mutations
adiponectin, and type 2 diabetes, 2325
EIF2AK3 gene, in Wolcott-Rallison
syndrome, 2301
frameshift, *Ian4* gene, in diabetes-prone BB
rat, 1972
glucokinase, second activating, 1240
INPPL1 (SHIP2) gene, in type 2 diabetes,
2012
KIR6.2 variant E23K, and insulin secretion,
3135
leptin and leptin receptor genes, 1980, 2665
missense, *MC4R*, novel homozygous, 243
PAX6, and glucose intolerance, 224
PPARG F388L, in familial partial
lipodystrophy, 3586
PTP-1B gene, 1
- myc, GLUT4myc-expressing mice, GLUT4
activation in, 2719
- Myocardial blood flow
C-peptide and, in type 1 diabetes, 3077
insulin effects on, 1125
- Myocardial contractility, improvement by
SERCA2a, in diabetic cardiomyopathy,
1166
- Myocardial function, C-peptide and, in type 1
diabetes, 3077
- Myocardial insulin resistance, type 2 diabetes
with CAD and, 3020
- Myocardial ischemia, in type 2 diabetes, 808
- Myocardial perfusion, in autonomic
neuropathy, 3306
- Myocardium
hyperglycemia-induced apoptosis in, in
mouse, 1938
injury to, PKC β 2 activation and diabetes
and CTGF expression after, 2709
- Myocytes, lipid utilization in, PPAR- α and, 901
- Myotubes
diabetic phenotype in, 921
insulin resistance in, in impaired glucose
tolerance, 1052
- N**
NADH oxidase, in impaired vasodilation, in
OLETF rats, 522
NADH shuttles, in insulin secretion from fetal
 β -cells, 2989
Naltrexone, in corneal repair, in diabetic rat,
3055
Nateglinide, SUR1 interactions, 2789
NBI-6024, in type 1 diabetes, 2126
Neonates
cardiomyocyte hyperglycemia and
capacitative Ca^{2+} entry, 3461
gut cytokines and diabetes in, oral agents
and, 73
Neovascularization, retinal, rat strain
differences in, 1218
Nephropathy
diabetic
advanced, *ENPP1/PC-1* polymorphism
and, 1188
ALT-946 and aminoguanidine effects
against, in (mREN-2)27 rat, 3283
candidate gene screening in, 256
cellular basis of, 3577, 506, 1294
chemokine receptor genotype and, in
type 2 diabetes, 238
early
clinical course of, 1572
structural course of, 1580
IGF-I signaling in, 182
reduction of AGEs by ACE inhibition in,
3274
tubular epithelial cell activation in, 3532
type 1 diabetic
GLUT1 polymorphisms and, in type 1
diabetes, 2264
TGF- β and, 3577
type 2 diabetic, PPAR- γ 2 polymorphism
Pro12Ala and, 2653
Nerve growth factor, HSV-mediated gene
transfer, effects in diabetic neuropathy, in
mouse, 2227
Netherlands, genome-wide search for type 1
diabetes genes, 856
Neural tube defects, susceptibility to, during
diabetic embryopathy, 2871
Neuropathy
autonomic, myocardial perfusion in, 3306
diabetic
chronic, dorsal root ganglion
morphometry in, 819
cyclooxygenase and acetyl-L-carnitine
effects in, 2619
HSV-mediated NGF gene transfer effects
in, in mouse, 2227
painful, local sympathetic denervation in,
3545
thrombomodulin deficiency in, 1957
sympathetic islet, early, in BB rats, 2997
Neuropeptide Y
deficiency of, diabetic hyperphagia in, in
mice, 778
obesity induced by, in rats, 152
Neuropeptide Y2 receptor, and leptin double
KO mice, 3420
Neuropeptide Y5 receptor, in rat feeding, 2441
Neutrophils, respiratory burst augmentation
by ACEs, 2846
Nitration, of prostacyclin synthase, high
glucose and, 198
Nitric oxide
 β -cell protection from, 311
and exercise glucose uptake, in type 2
diabetes, 2572
inhibition of aldose reductase by, 3095
leptin-induced release of, mechanisms of,
168
in renal hemodynamics of diabetes, 2025
stimulation of insulin secretion by, 3450
Nitrosative stress, and peripheral nerve
function, in early type 1 diabetes, 2817
Nitrotyrosine, in heart, acute hyperglycemia
and, in rats, 1076
NN304 [Lys^{B29}-tetradecanoyl des (B30) human
insulin]
acylated, in vivo kinetics of, 762
transcapillary transport of, in dog hindlimb,
574
NN2211, effects in type 2 diabetes, 424
NNC 55-9216. *see* 3-Isopropylamino-7-
methoxy-4H-1,2,4-benzothiadiazine
1,1-dioxide
Northern European Caucasians, PKLR gene
polymorphisms and type 2 diabetes in,
2861
Nuclear factor of activated T-cell-mediated
insulin gene transcription, 691
Nuclear factor- κ B, activation of
by depolarization, S484
in diabetic retinopathy, 2241
in renal tubular cells, 3532
Nuclear factor- κ B-dependent promoter,
activation by hexosamine flux, 1146
Nuclear magnetic resonance, metabolism in
 β -cells, 1714
¹H-Nuclear magnetic resonance spectroscopy,
assessment of skeletal muscle triglyceride
content by, in adolescents, 1022
Nucleotide sensitivity, of pancreatic
ATP-sensitive potassium channels, S358
- O**
Obesity
acyl-CoA binding protein expression in, in
Zucker rats, 449
adiponectin polymorphism and, 37
adipose tissue expression of MMPs in, 1093
AMP-activated protein kinase signaling in
Zucker rats with, 2703
cerivastatin effects in early-state obese type
2 diabetes, 2596
childhood
insulin resistance in, S304
plasma ghrelin levels in, 3408
diet-induced
blockade by leptin gene therapy, 1729
melanocortin agonist MTH effects in, in
mice, 1337
endothelin-1 and vascular dysfunction in,
3517
fatty acid oxidation in, in Zucker rat heart,
2587
genetics of, S295
genome-wide scan for, in
African-Americans, 541
hepatic expression of microsomal
triglyceride transfer protein in, in obese
diabetic mice, 1233
insulin transport in, 2742
leptin resistance in, in agouti yellow obese
mice, 439
MC4 antagonist- versus NPY-induced, in
rats, 152
morbid
insulin resistance in, 144
weight loss and long-chain acyl-CoAs in,
2959
PPARGC1 gene locus and, in women, 1281
resistin gene and, 860, 1992
resistin variants associated with, 1629

- severe, novel homozygous *MC4R* missense mutation in, in Japanese, 243
 SREBP-1 expression in, 1035
 TNF- α processing in, 1876
 UCP2 polymorphism and, 3331
 Obesity-induced diabetes (diabetes), in mice, 825
 Okamoto model, recent advances in, S462
 Oleic acid, intracerebroventricular, glucose production inhibition by, 271
 Oman, Berardinelli-Seip congenital lipodystrophy in, 1291
 Omental, lipolysis and leptin production by, 2029
 Oral minimal model, in impaired glucose tolerance, S227
 Oscillations
 ATP, in single β -cells, S162
 calcium, and insulin secretion, 2773, S177
 insulin
 Ca²⁺ oscillations and, 2773, S177
 [Ca²⁺], and, S144
 regulation of, S171
 metabolic
 in β -cells, S152
 in pancreas, 699
 ultradian, of insulin secretion, S258
 Ouabain, effects on ATP production, 2522
 Oxidation
 fat, endurance training and, 2220
 fatty acid, in obese Zucker rat heart, 2587
 Oxidative stress, in diabetes, 2846
 Oxygen, and insulin oscillations, 699
 Oxygen-regulated protein 150 gene (*ORP150*), polymorphisms, and insulin resistance in Pima Indians, 1618
- P**
 P32/98
 and β -cell function, in Zucker rats, 943
 insulin sensitivity improvement with, in VDF Zucker rat, 2677
 p300, transcriptional co-activator for HNF-1 α , 1409
 Painful diabetic neuropathy, local sympathetic denervation in, 3545
 [U-¹³C]Palmitate, extracted by skeletal muscle, in type 2 diabetes, 784
Panax ginseng berry extract, antidiabetic effects, 1851
 PancChip, 1997
 Pancreas
 ATP-sensitive potassium channels in, nucleotide sensitivity of, S358
 endocrine
 functional genomics of, 1997
 in intrauterine growth retardation, 385
 metabolism in, oscillations of, 699
 Pancreatic β -cells. *see* β -cells
 Pancreatic islet cells. *see also* β -cells
 allogeneic
 autoimmunity in destruction of, 3202
 LEA297-based protection of, 265
 survival prolongation by IDO expression, 356
 antibodies, and β -cell function, in adult-onset diabetes, 1754
 fatty acid effects on, 1437
 functional mass preservation by SOD mimics, 2561
 glucose sensitivity in, in *P. obesus*, 2552
 Gly972 \rightarrow Arg IRS-1, insulin secretory function of, 1419
 growth and function in fibrin, 3435
 hyperperfusion during prediabetic phase, in OLETF rats, 2530
 IA-2 expression in, regulation of, 2982
 insulin release from, promotion by L-783,281, S50
 intracellular pH and glucose priming in, in rats, 105
 lipotoxicity in, metformin and, S134
 MCP-1/CCL2 production and secretion in, 55
 after short-term high-fat diet in mice, S138
 stress genes, activation during chronic hyperglycemia, 413
 sympathetic neuropathy of, early, in BB rats, 2997
 transplantation of
 β -cell death and mass in, 66
 circulating β -cells after, 557
 follow-up, 2148
 portal vein *vs.* celiac artery islet infusion in, in rhesus model, 2135
 rejection of
 CCR5 in, 2489
 cytotoxic lymphocyte gene expression and, in nonhuman primates, 562
 in type 1 diabetes, 3428
 vascular density of, in mice, 1362
 two-photon excitation imaging of, S25
 in type 2 diabetes, 988
 vascularized, transplantation of, in miniature swine, 3220
 VIAAT expression in, 1763
 xenograft rejection, Th1 immune response in, 79
 Parathyroid hormone-related protein, β -cell death inhibition by, 3003
 Partial lipodystrophy, familial, *PPARG* F388L in, 3586
PAX6 gene mutation, and glucose intolerance, 224
Pdx1 gene
 expression of
 control by *Foxa2*, in β -cells, 2546
 regulation of, S320
 IEC-6 cells expressing, 2505
 PEPCK gene
 overexpression in adipose tissue, 624
 transcriptional regulation by retinoic acid, 3400
 Pericytes, and diabetic retinopathy, 3107
 Peripheral blood lymphocytes, Th1-associated chemokine receptors in, in type 1 diabetes, 2474
 Peripheral blood mononuclear cells, enterovirus in, in type 1 childhood diabetes, 1964
 Peripheral insulin resistance, induction by indinavir, in rats, 937
 Peripheral nerve
 function of, nitrosative stress and, in early type 1 diabetes, 2817
 microcirculation of, 2233
 Peroxisome proliferator-activated receptor- α , and lipid utilization in myocytes, 901
 Peroxisome proliferator-activated receptor- α ligands, regulation of pyruvate dehydrogenase kinase expression by, 276
 Peroxisome proliferator-activated receptor- α/γ agonist LY465608, tailored therapy for metabolic syndrome with, 1083
 Peroxisome proliferator-activated receptor- γ agonists
 insulin signaling potentiation by, in Zucker obese rats, 2412
 pre-adipocyte responses to, 718
 and β -cell function, S414
 cardioprotective effects, 1507
 in mature 3T3-L1 adipocytes, 2045
 mutation *PPARG* F388L, in familial partial lipodystrophy, 3586
 upregulation of β -cell-specific glucokinase gene expression by, 676
 Peroxisome proliferator-activated receptor- γ 2, gene polymorphism Pro12Ala, 867, 2341
 and birth size, 2321
 and diabetic nephropathy, 2653
 and type 2 diabetes, 2581
 Peroxisome proliferator-activated receptor- γ coactivator-1, gene locus, 1281
 Peroxynitrite, induction of
 N⁶-(carboxymethyl)lysine formation by, 2833
 pH, intracellular, and glucose priming, in rat islets, 105
 Phagocytosis, in NOD mice, 2481
 Phenotype
 diabetic, in myotubes, 921
 PC2^{-/-}, correction by glucagon, in mice, 398
 Phenotyping, T-cell, by GAD65 tetramers, 1375
 Phogrin, expression in pancreatic islets, 2982
 Phosphatases, intracellular targeting of, S385
 Phosphatidylinositol 3-kinase
 activity of
 and insulin secretion, 87
 restoration by troglitazone, in type 2 diabetes, 443
 redistribution of, and skeletal muscle insulin resistance in GDM, 19
 in SREBP-1c expression, in rat hepatocytes, 1672
 Phosphodiesterase 3, and hypermotile *cp/cp* vascular smooth muscle cells, 1194
 Phosphodiesterase 3B
 14-3-3 β protein interactions, 3362
 downregulation of, in 3T3-L1 adipocytes, 631
 Phospholipase A₂, cytosolic, and β -cell function, 98
 Phospholipid, Ca²⁺-dependent binding, by synaptotagmin I C₂A-domain, S12
 Phospholipid transfer protein, activity of and HDL and LDL, in type 1 diabetes, 3300
 Pima Indians
 ORP150 polymorphism and insulin resistance in, 1618
 type 2 diabetes in
 early insulin secretion in, S262
 KCNJ10 gene and, 3342
 Pituitary adenylate cyclase-activating peptide receptor VPAC2, agonist for type 2 diabetes, 1453
 Placental amino acid transport, in diabetes, 2214
 Plasma adiponectin
 reduction by androgens, 2734
 and skeletal muscle insulin receptor tyrosine phosphorylation, 1884
 thiazolidinedione effects on, 2968
 and weight gain, 2964
 Plasma ghrelin, in childhood obesity, 3408
 Plasma glucose, fasting, and heart rate recovery, 803
 Plasma insulin, oscillations in regulation of, S171
 in vivo oxygen and, 699
 Plasma leptin, insulin sensitivity and, and body fat distribution, 1005
 Plasma triacylglycerol, reduction by MEDICA, in rats, 1548
 Plasminogen activator inhibitor-1, and type 2 diabetes, 1131

- Podocyte number, in type 1 diabetes with albuminuria, 3083
- Polycystic ovary syndrome, lipolysis in, 484
- Polymerization, fibrin, dimethylbiguanide effects on, 189
- Poly(ADP-ribose) polymerase, and cardiovascular dysfunction in diabetes, 514
- Poly(ADP-ribose) polymerase-1-deficient *Adprt1* Δ -NOD mice, 1470
- Polyunsaturated fatty acids, dysregulation of ABCA1 by, in diabetes, 2922
- Portal vein, for islet infusion, in rhesus model, 2135
- Potassium
- $\text{Na}^+\text{-K}^+\text{-2Cl}^-$ cotransporter, regulation of, in skeletal muscle, 615
 - regulation of insulin effects on glucose and K^+ uptake in vivo by, 915
 - uptake in vivo, insulin effects on, 915
- Potassium channels
- ATP-sensitive
 - $[\text{Ca}^{2+}]_i$ effects on, in β -cells, 376
 - and coronary blood flow, in diabetes, 1201
 - independent cAMP action, S29
 - pancreatic, nucleotide sensitivity of, S358 - ATP-sensitive inward rectifier 6.2 (KIR6.2) cytosolic domains, interactions of, S377
 - E23K variant
 - and insulin secretion, 3135
 - predisposition to type 2 diabetes, S363
 - gene polymorphism Glu23Lys, and response to hyperglycemia, 2854
 - gene polymorphisms, and type 2 diabetes, 875
 - opener NNC 55-9216, 1896
 - voltage-dependent K_v , in β -cells, S443
- Preadipocytes
- differentiation of, inhibition by adipocytes, 1699
 - responses to PPAR γ and RXR α agonists, 718
- Prediabetes, islet hyperperfusion during, in OLETF rats, 2530
- Pregnancy
- with diabetes
 - diacylglycerol production and PKC activity in, 2804
 - placental amino acid transport in, 2214 - TNF- α and insulin resistance in, 2207
- Primate studies
- cytotoxic lymphocyte gene expression, 562
 - rhesus model, portal vein vs. celiac artery islet infusion, 2135
- Prohormone convertase 2, PC2 $^+$ phenotype, correction by glucagon, 398
- Proinsulin
- embryonic, action and regulation of, in chick, 770
 - synthesis of, succinate coupling, 2496
 - and type 2 diabetes risk, 1263
- Prostacyclin synthase, nitration of, high glucose and, 198
- Protein
- acylation of, and biphasic insulin secretion, S91
 - synthesis of
 - leucine enhancement of, in diabetic rats, 928
 - in type 2 diabetes, 2395
 - vitamin D receptor levels, in Bangladeshi Asians, 2294
- 14-3-3 β protein, PDE3B interactions, 3362
- Protein kinase B, phosphorylation, troglitazone and, 2691
- Protein kinase C
- activity of
 - in diabetic embryopathy, 2804
 - induction by homocysteine, 1180
 - and endothelial dysfunction, 1556
 - and lipid-induced insulin resistance in muscle, 2005
- Protein kinase C α , TNF- α effects on, and insulin receptor signaling in skeletal muscle, 1921
- Protein kinase C β 2, and CTGF expression in injured heart, 2709
- Protein kinase C δ
- inhibition of, prevention of INS-1 apoptosis by, 317
 - TNF- α effects on, and insulin receptor signaling in skeletal muscle, 1921
- Protein kinase C- ζ/η , activation of, in diabetic monkeys, 2936
- Protein kinases
- β -cell, insulin response and, S68
 - intracellular targeting of, S385
- Protein phosphatase 1, glycogen-targeting subunit $\text{G}_{1\gamma}$, in skeletal muscle, 591
- Protein tyrosine phosphatase-1B
- gene mutations, 1
 - lipogenesis regulation by, 2405
- Proton leak, mitochondrial, in diet resistance, 2459
- Psammomys obesus* studies, glucose sensitivity in islets, 2552
- PTEN, inhibition of, hyperglycemia reversal by, in diabetic mice, 1028, 1652
- Pyridoxamine, inhibition of diabetic retinopathy by, 2826
- Pyruvate dehydrogenase kinase, regulation of, 276
- Pyruvate kinase PKLR gene polymorphisms, and type 2 diabetes in Northern European Caucasians, 2861
- Q**
- Quantitative trait linkage analysis, of lipid-related traits in familial type 2 diabetes, 528
- R**
- Radiation-induced type 1 diabetes, thymectomy and, in BB rats, 2975
- Rapamycin, mammalian target mTOR, regulation by β -cells, 2877
- Rat studies
- (mREN-2)27 rats, ALT-946 and aminoguanidine renoprotective effects in, 3283
 - acetyl-CoA carboxylase and insulin resistance, 1548
 - acute hyperglycemia and nitrotyrosine in heart, 1076
 - AICAR effects on insulin resistance syndrome, 2199
 - benfluorex effects on hepatocytes, 2363
 - β -cell neogenesis during hyperglycemia, 1834
- BioBreeder (BB) diabetic rats
- early sympathetic islet neuropathy in, 2997
 - genetics of, 3254
 - lan4* frameshift mutation in, 1972
 - thymectomy and radiation-induced type 1 diabetes in, 2975
 - combination basal hepatic insulin production and insulin treatment of type 1 diabetes, 130
- COX release during hyperalgesia, 2249
- diabetic rats
- leucine enhancement of protein synthesis in, 928
 - naltrexone facilitation of corneal repair in, 3055
 - dietary fat and insulin secretion, 1825
 - DP IV-resistant glucose-dependent insulinotropic polypeptide, 652
 - free fatty acid-induced insulin resistance, 1907
 - gestational diabetes, 1499
 - Goto-Kakizaki rats
 - fetal, IGFs in, 392
 - GLP-1 promotion of β -cell development in, 1443 - high-fat-fed rats
 - AMPK and insulin sensitivity in, 2886
 - tissue fatty acid metabolism in, 1477 - hyperlipidemia effects on insulin secretion, 662
 - indinavir induction of peripheral insulin resistance, 937
 - INS-1 cell apoptosis prevention by PKC δ inhibition, 317
 - insulin secretion control by sulfatide in, 2514
 - insulin secretion kinetics, S99
 - intracellular pH and glucose priming in pancreatic islets, 105
 - intrahepatic effects of metformin, 139
 - IRS-1 in SREBP-1c expression, 1672
 - leptin, insulin, and GHS-responsive neurons, 3412
 - MC4 antagonist- versus NPY-induced obesity, 152
 - mtDNA damage in diabetic kidney, 1588
 - NPY Y5 receptor in feeding, 2441
- OLETF rats
- islet hyperperfusion during prediabetic phase in, 2530
 - NADH oxidase in impaired vasodilation, 522
- PDE3 and hypermotile *cp/cp* vascular smooth muscle cells, 1194
- phosphorylation and inactivation of glycogen synthase by AICA-riboside, 284
- regulation of hepatic DGAT activity, 1708
- all-*trans*-retinoic acid and diabetic skin, 3510
- SREBP-1c expression in muscle, 1722
- strain differences in retinal neovascularization, 1218
- WF.*iddm4* rats, *iddm4* locus and diabetes susceptibility in, 3254
- Zucker diabetic fatty (*fa/fa*) rats
- acyl-CoA binding protein expression in, 449
 - AMPK signaling in, 2703
 - diabetes delay by DPP-IV inhibition in, 1461
 - fatty acid oxidation in heart, 2587
 - GSK-3 inhibitor effects on glucose metabolism in, 2903
 - hemodynamic insulin resistance in, 3492
 - insulin sensitivity improvement with P32/98, 2677
 - insulin signaling potentiation by PPAR- γ agonists, 2412
 - normalization of glucose metabolism by rosiglitazone, 2066
 - P32/98 and β -cell function, 943
 - rosiglitazone effects in heart, 1110
- Reg* (regenerating gene) knockout mice, production and characterization of, S478

- Regional skeletal muscle lipolysis, 3376
- Rejection
 islet allograft
 CCR5 in, 2489
 cytotoxic lymphocyte gene expression and, in nonhuman primates, 562
 islet xenograft, Th1 immune response in, 79
- Renal tubular cells
 activation of, in diabetic nephropathy, 3532
 NF- κ B activation in, 3532
- Renin-angiotensin system, in renal hemodynamics of diabetes, 2025
- Repaglinide, SUR1 interactions, 2789
- Research, ADA-funded, year 3 status, 888
- Resistance
 diet, mitochondrial proton leak and UCP3 expression in, 2459
 insulin
 adiponectin locus and, 2306
 of aging, visceral fat and, 2951
 AICAR effects on, in rats, 2199
 amino acid-induced, in skeletal muscle, 599
 atherosclerosis and, 3069
 CAPN10 gene and, 2658
 in central adipose depot, 755
 childhood predictors of, Bogalusa Heart Study, 204
 endothelin-1 and vascular dysfunction in, 3517
 FOXC2 and, 3554
 GLUT4 activity and, 2090
 hemodynamic, in Zucker rats, 3492
 IL-6 and, in hepatocytes, 3391
 in morbid obesity, 144
 myocardial, type 2 diabetes with CAD and, 3020
 in myotubes, in impaired glucose tolerance, 1052
 in obese children, S304
 ORP150 polymorphism and, in Pima Indians, 1618
 in pregnancy, TNF- α and, 2207
 skeletal muscle, PI 3-kinase redistribution and, in GDM, 19
 in small for gestational age, genetic effects on, 3473
 steroid-induced, troglitazone effects in, 2895
 Thr92Ala DIO2 and, 880
 TNF- α and, 3176
 weight and, in children, 3468
 leptin
 during aging, 1016
 in agouti yellow obese mice, 439
- Resistin, humoral regulation of, 1737
- resistin* gene
 and obesity and type 2 diabetes, 860, 1992
 search for SNPs in, 863, 1652
 variants associated with obesity, 1629
- Respiratory burst, neutrophil, augmentation by ACEs, 2846
- Retinal neovascularization, rat strain differences in, 1218
- Retinoic acid
 and diabetic embryopathy, 2811
 PEPCK transcriptional regulation by, 3400
- all-*trans*-Retinoic acid, and diabetic skin, in rats, 3510
- Retinoid X receptor α , agonists, pre-adipocyte responses to, 718
- Retinopathy, diabetic
 caspase activation in, 1172
 complement in, 3499
 inhibition by pyridoxamine, 2826
 NF- κ B activation in, 2241
- pericytes and, 3107
- VEGF gene polymorphism and, 1635
- Rho, inactivation by insulin, in vascular smooth muscle cells, 2256
- Risk assessment, with continuous glucose monitoring, 3263
- Rosiglitazone
 cardioprotective effects, 1507
 effects in heart, in Zucker fatty rats, 1110
 effects on liver and muscle triglyceride, in type 2 diabetes, 797
 gene induction by, during adipocyte differentiation, 1042
 normalization of glucose metabolism by, in Zucker fatty rats, 2066
 and skeletal muscle glucose uptake in type 2 diabetes, 3479
- Ryanodine receptor calcium channel, in β -cells, 1299
- Ryanodine receptors, and β -cell Ca^{2+} , S190
- S**
- Sarco/endoplasmic reticulum Ca^{2+} -ATPase (SERCA), insulin signaling and, in β -cells, S427
- Sarco/endoplasmic reticulum Ca^{2+} -ATPase (SERCA)-2, and β -cell Ca^{2+} , S190
- Sarco/endoplasmic reticulum Ca^{2+} -ATPase (SERCA)-2a, cardiac function improvement by, 1166
- Sarco/endoplasmic reticulum Ca^{2+} -ATPase (SERCA)-3, and $[\text{Ca}^{2+}]_i$ in β -cells, 3245
- Sardinia founder population, chromosome Y in type 1 diabetes in, 3573
- Scandinavia, early-onset diabetes in, 1609
- Scandinavian Caucasians, NIDDM1 in, 3561
- Secretory granules, and first-phase insulin secretion, S74
- Sensitivity
 glucose, in *P. obesus* islets, 2552
- insulin
 adipose tissue blood flow and, 2467
 AMP-activated protein kinase and, in high-fat-fed rats, 2886
 fetuin and, in mice, 2450
 and glucagon response to hypoglycemia, in dog, 3033
 hepatic, alanine aminotransferase and, 1889
 in hyperinsulinemia in African-American children, 3014
 improvement with P32/98, in VDF Zucker rat, 2677
 plasma adiponectin levels and, 1884
 reduced AGE intake and, in *db/db* mouse, 2082
 nucleotide, of pancreatic ATP-sensitive potassium channels, S358
- Serum amyloid A, Tanis interactions, effects in type 2 diabetes and inflammation, 1859
- Serum leptin receptor, regulation of, 1980, 2665
- Sexual dimorphism, diabetic, 2158
- SH2-containing inositol phosphatase 2 and insulin resistance, in diabetic *db/db* mice, 2387
- SHIP2 mutations, in type 2 diabetes, 2012
- Signal transducer and activator of transcription STAT5, activation by glycated LDL, 3311
- Simvastatin, effects on hepatic diacylglycerol acyltransferase, in rats, 1708
- Single nucleotide polymorphisms (SNPs)
 CAPN10
 and insulin resistance and free fatty acids, 2658
- and type 2 diabetes, 1644
 and type 2 diabetes risk in African-Americans, 231
- resistin*, search for, 863
- in *resistin* gene, search for, 1652
- Sirolimus, combined with IL-2, prevention of NOD diabetes by, 638
- Skeletal muscle
 AMP-activated protein kinase activity in metformin and, in type 2 diabetes, 2074
 in Zucker rats, 2703
 co-culture with adipocytes, 2369
 fatty acid utilization in
 PPAR- α and, 901
 regulation of, 2684
- G $_i$ in, 591
- glucose metabolism in, normalization by rosiglitazone, in Zucker fatty rats, 2066
- glucose uptake in, rosiglitazone and, in type 2 diabetes, 3479
- glycogen metabolism in, AICAR and, 567
- GSK-3 inhibition in, 2190
- Hsp-72 mRNA levels, in type 2 diabetes, 1102
- insulin production by, in mice, 704
- insulin receptor signaling in, TNF- α effects on, 1921
- insulin receptor tyrosine phosphorylation, plasma adiponectin levels and, 1884
- insulin resistance in
 amino acid-induced, 599
 PI 3-kinase redistribution and, in GDM, 19
- insulin signaling in
 caffeine effects on, 583
 in glucose-intolerant relatives with type 2 diabetes, 552
- intracellular lipid content, insulin effects on, in type 2 diabetes, 3025
- microvascular recruitment by hyperinsulinemia, 42
- mitochondrial dysfunction in type 2 diabetes, 2944
- mitochondrial proton leak in diet resistance, 2459
- Na^+ - K^+ -2Cl $^-$ cotransporter in, 615
- [U- ^{13}C]palmitate extracted by, in type 2 diabetes, 784
- PI 3-kinase activity restoration by troglitazone in, in type 2 diabetes, 443
- PKB phosphorylation in, 2691
- protein synthesis in, leucine enhancement of, in diabetic rats, 928
- regional lipolysis in, 3376
- triglyceride content, in adolescents, 1022
- type 2 diabetes gene expression profile, 1913
- UCP3 expression in, in diet resistance, 2459
- Skin, diabetic, all-*trans*-retinoic acid and, in rats, 3510
- Skin blood flow, in diabetes, 1214
- Small for gestational age, insulin resistance in, 3473
- Smooth muscle, vascular, actin disorganization by insulin in, 2256
- Sodium
 Na/Ca exchange, in BRIN-BD11 cells, 366
 and apoptosis and caspase-12, 1815
 Na^+ - K^+ -2Cl $^-$ cotransporter, regulation of, in skeletal muscle, 615
- Sodium salicylate, COX-2 and EP3 inhibition by, and β -cell function, 1772
- South Indians, type 2 diabetes in, CAPN10 polymorphism and, 1622
- Splanchnic glucose metabolism, FFAs and glycerol effects on, 301

- Splanchnic glucose uptake, free fatty acids and, in type 2 diabetes, 3043
- Steroid-induced insulin resistance, troglitazone effects in, 2895
- Sterol regulatory element binding protein (SREBP)-1, expression in obesity and type 2 diabetes, 1035
- Sterol regulatory element binding protein (SREBP)-1c
conjugated linoleic acid effects on, 2037
effects on β -cells, 2536, S414
expression of
IRS-1 in, in rat hepatocytes, 1672
in rat muscle, 1722
- Stress
endoplasmic reticulum, S455
nitrosative, and peripheral nerve function, 2817
- Stress genes, islet, activation during chronic hyperglycemia, 413
- Strong Heart Study, insulin levels and left ventricular structure and function in American Indians, 1543
- Subcutaneous adipose tissue, fatty acid entrapment in, 2684
- Succinate
insulin release mechanism, 2669
proinsulin synthesis coupling, 2496
- Sulfatide, insulin secretion control by, in rat, 2514
- Sulfonylurea
modulation of Kir6.2 intracellular domains by, S377
stimulation of insulin secretion by, S368
- Sulfonylurea receptor 1
insulin secretion in SUR1KO mice, 3440
nateglinide and repaglinide interactions, 2789
- Superoxide, vascular formation of, glucose and, 2648
- Superoxide anion release, inhibition by α -tocopherol, 3049
- Superoxide dismutase mimics
islet functional mass preservation by, 2561
metalloporphyrin-based, 347
- Sympathetic denervation, in painful diabetic neuropathy, 3545
- Sympathetic islet neuropathy, early, in BB rats, 2997
- Synaptic adaptation, to hypoglycemia, in guinea pig, 430, 3350
- Synaptosomal-associated protein 25-kDa SNAP-25, β -cell calcium channel regulation by, 1425
- Synaptotagmin I, C₂A-domain of, S12
- Syndrome X. *see* Insulin resistance syndrome
- T**
- Tanis, effects in type 2 diabetes and inflammation, 1859
- Taste aversion, C75 effects on, 3196
- T-cells
activated, nuclear factor of, -mediated insulin gene transcription, 691
coxsackievirus B4 response, 1745
modulation by TX527-treated dendritic cells, 2119
phenotyping of, by GAD65 tetramers, 1375
selection of, modulation by thymic insulin, 1383, 2665
Th1 immune response, in islet xenograft rejection, 79
Th1-associated chemokine receptors, expression in type 1 diabetes, 2474
tolerance by antidiabetogenic MHC, 325
- Theophylline, and hypoglycemia unawareness, in type 1 diabetes, 790
- Thiazolidinediones
effects in heart, in Zucker fatty rats, 1110
gene induction by, 1042
and plasma adiponectin levels, 2968
- Thrombomodulin deficiency, in diabetic nerve, 1957
- Thymectomy, and radiation-induced type 1 diabetes, in BB rats, 2975
- Thymic insulin, T-cell selection modulation by, 1383, 2665
- Thyroid hormone receptor interacting protein 3, novel HNF-4 α coactivator, 910
- Tissue fatty acid metabolism, in high fat-fed rats, 1477
- Tissue inhibitor of metalloproteinase, adipose tissue expression in obesity, 1093
- 3T3-L1 adipocytes, mature, PPAR- γ in, 2045
- α -Tocopherol, inhibition of superoxide anion release by, 3049
- Tolerance
glucose, calpain-10 gene and, in British, 247
T-cell, by antidiabetogenic MHC, 325
- Toxicity
 β -cell glucolipotoxicity, S405
glucotoxicity, glucose metabolism and UCP-2 in, 2749
lipotoxicity
glucose metabolism and UCP-2 in, 2749
metformin and, S134
- Training, endurance, effects on fat oxidation, 2220
- Trait linkage analysis, quantitative, of lipid-related traits in familial type 2 diabetes, 528
- Transcription factor-associated maturity-onset diabetes of the young, models of, S333
- Transforming growth factor- β and diabetic nephropathy in type 1 diabetes, 3577
and JAK-STAT signaling, in mesangial cells, 3505
- Transient receptor potential channel (TRPC) genes, in insulin-secreting cells, S183
- Transplantation
islet
allograft rejection in, CCR5 in, 2489
autoimmunity in, 3202
 β -cell death and mass in, 66
circulating β -cells after, 557
follow-up, 2148
portal vein *vs.* celiac artery islet infusion in, in rhesus model, 2135
rejection of, cytotoxic lymphocyte gene expression and, in nonhuman primates, 562
in type 1 diabetes, 3428
vascular density after, in mice, 1362
liver, amino acid kinetics during anhepatic phase, 1690
vascularized islet, in miniature swine, 3220
- Triacylglycerol, plasma levels, reduction by MEDICA, in rats, 1548
- Tributes, John Denis McGarry, 1651
- Triglycerides
chromosome 19q linkage, in familial type 2 diabetes, 528
liver and muscle, rosiglitazone effects on, in type 2 diabetes, 797
skeletal muscle content, in adolescents, 1022
VLDL, secretion of, free fatty acids and, 1867
- Troglitazone
and adipose tissue, in type 2 diabetes, 30
- δ -6 desaturase gene expression
downregulation by, 1060
effects in steroid-induced insulin resistance, 2895
- PI 3-kinase activity restoration by, in type 2 diabetes, 443
and PKB phosphorylation, 2691
prevention of type 2 diabetes with, in Hispanic women, 2796
- Tubular epithelial cells, activation of, in diabetic nephropathy, 3532
- Tumor necrosis factor- α
and gene expression in adipocytes, 1319
and hyperketonemia, in type 1 diabetes, 2287
and insulin receptor signaling, in skeletal muscle, 1921
and insulin resistance, 3176
and insulin resistance in pregnancy, 2207
lipolysis stimulation by, 2929
processing, in obesity, 1876
- Two-photon excitation imaging, of pancreatic islets, S25
- TX527-treated dendritic cells, T-cell modulation by, 2119
- Type 1 diabetes
adolescent, endothelial dysfunction and folate status in, 2282
age-dependent onset of, genetic effects on, 1346
with albuminuria, podocyte number in, 3083
altered-peptide ligand NBI-6024 in, 2126
blockade by 1 α ,25(OH)₂D₃ analog, 1367
carotid artery intima-media thickness in children with, 493
cellular microparticle patterns in, 2840
childhood
blood enterovirus RNA in, 1964
endothelial dysfunction and folate status in, 2282
incidence of, 3353
chromosome 1q42 locus mapping, 3318
chromosome Y in, in Sardinia, 3573
combination basal hepatic insulin production and insulin treatment of, in rats, 130
coronary artery calcification in, lipoproteins and, 1949
coronary atheromatosis in, 2637
C-peptide and myocardial dysfunction in, 3077
early, nitrosative stress and peripheral nerve function in, 2817
early renal structural changes in, 1580
GAD2 in, 2866
genes, genome-wide search for, in Netherlands, 856
glucose homeostasis in, 951
hepatic glycogen metabolism in, 49
hyperketonemia and TNF- α in, 2287
hypoglycemia unawareness in, theophylline and, 790
IL4R haplotypes and, 3336
IL12B polymorphism and, in Italians, 1649
IL-12p40 and, in Caucasian-American families, 2334
IL-18 promoter polymorphisms in, 3347
islet transplantation in, 3428
lck polymorphisms in, 3326
LIPC gene and coronary calcification in, 1208
nephropathy in
candidate gene screening with, 256
GLUT1 polymorphisms and, 2264
new-onset, HIP-PAP as T-cell autoantigen in, in NOD mice, 339

- PLTP activity and HDL and LDL in, 3300
 proinsulin 2 knockout NOD mice model for, 5489
 radiation-induced, thymectomy and, in BB rats, 2975
 renal structure and function in, 506, 1294
 susceptibility to
 Asian-specific HLA and, 545
 locus on chromosome 8 for, S316
 T-cell phenotyping by GAD65 tetramers in, 1375
 Th1-associated chemokine receptors in, 2474
 xanthine oxidase in, 1118
- Type 2 diabetes**
 ACE gene insertion/deletion polymorphism and, 1986
 ACE genotype and glomerulopathy in, 251
 adiponectin gene and, in Japanese, 536, 1294
 adiponectin mutations and, 2325
 albuminuria, endothelial dysfunction, and inflammation in, 1157
 AMP-activated protein kinase activity in, metformin and, 2074
 antidiabetic therapy and adipose tissue in, 30
 APOE gene and, and dementia risk, 1256
 calpain-10 gene and, 1644
 CAPN10 polymorphism and, in South Indians, 1622
 cellular microparticle patterns in, 2840
 chemokine receptor genotype and diabetic nephropathy in, in Japanese, 238
 chronic hyperglycemia and glycemic control in, 2179
 chronic inflammation and, 1131
 coronary artery disease with, and myocardial insulin resistance, 3020
 coronary microvascular dilation in, deferaxamine and, 813
 early insulin secretion in, S262
 early-state obese, cerivastatin effects in, 2596
 endothelin-1 and vascular dysfunction in, 3517
 familial
 adiponectin polymorphism and, 37
 lipid-related traits in, quantitative trait linkage analysis of, 528
 fatty acid handling in, 7, 784
 fetal IGF-2 in GK rat model of, 392
 first-phase insulin release in, S117
 gene expression profile, 1913
 genes, chromosome 20 search, S308
 genetics of, S295
 genome scanning in Japanese with, 1247
 glucagon in, reduced, 724
 glucose-intolerant relatives with, skeletal muscle insulin signaling in, 552
 glycemic control in
 chronic hyperglycemia and, 2179
 and glycogen synthesis, 462
 hepatic glucose effectiveness in, fructose and, 606
 high-ferritin, blood letting in, 1000
 Hsp-72 mRNA levels in, 1102
 with hyperlipidemia, fenofibrate effects on lipid metabolism in, 3486
 hypertension in, IGFBP-1 levels and, 2629
 hypoglycemia-associated autonomic failure in, 724
 IL-1ra genotype and coronary atherosclerosis in, 3582
 IL-10 and, 1088
- INPPL1 mutations in, 2012
 insulin effects on intracellular lipid content in, 3025
 $\alpha\beta 1$ integrin protection against atherosclerosis in, 1523
KCNJ10 gene and, in Pima Indians, 3342
 Lim domain homeobox gene *Isl-1* and, 1640
 macrovascular disease in, IGFBP-1 levels and, 2629
 metabolic effects of phasic insulin secretion in, S109
 metabolic syndrome and, 3120
 microvascular complications in, CETP gene polymorphisms and, in Japanese, 871
 muscle protein synthesis in, 2395
 myocardial ischemia in, 808
 NADH oxidase in impaired vasodilation in, in OLETF rats, 522
 NN2211 effects in, 424
 NO glucose uptake during exercise in, 2572
 PAI-1 levels and, 1131
 [$U\text{-}^{13}C$]palmitate extracted by skeletal muscle in, 784
 pancreatic islets in, 988
 pathogenesis of
 inflammation and, 455
 liver enzymes and, 1889
 PI 3-kinase activity restoration by troglitazone in, 443
 PKC- $\zeta/\lambda/\iota$ activation in, in monkeys, 2936
 PKLR gene polymorphisms and, in Northern European Caucasians, 2861
 polygenic basis of, 875, S358, S363
 PPAR- $\gamma 2$ polymorphism Pro12Ala and, 2581
 prediabetic phase, islet hyperperfusion during, in OLETF rats, 2530
 predisposition to, by E23K, S363
 prevention of, in Hispanic women, 2796
 PTP-1B gene mutation in, 1
resistin gene and, 860, 1992
 risk of
 acute insulin response and, 1263
 CAPN10 and, in African-Americans, 231
 proinsulin and, 1263
 rosiglitazone effects on liver and muscle triglyceride in, 797
 rosiglitazone effects on skeletal muscle glucose uptake in, 3479
 SHIP2 mutations in, 2012
 skeletal muscle mitochondria in, 2944
 splanchnic glucose uptake in, free fatty acids and, 3043
 SREBP-1 expression in, 1035
 susceptibility to, chromosome 5q mapping, in French family, 3568
 Tanis and, 1859
 UCP2 polymorphism and, 3331
 VPAC2 agonist for, 1453
 WFS1 gene and, in U.K., 1287
 white blood cell count and, 455
 Y2 receptor and, in leptin double KO mice, 3420
- Tyrosine phosphorylation, insulin receptor, skeletal muscle, plasma adiponectin levels and, 1884
- U**
 Uncoupling protein 2
 gene polymorphisms, and obesity and type 2 diabetes, 3331
 glucose metabolism and, in gluco- and lipotoxicity, 2749
 insulin secretion from β -cells and, 3211
 Uncoupling protein 3, expression of, in diet resistance, 2459
- United Kingdom, *WFS1* gene and type 2 diabetes in, 1287
- V**
 Vaccination, insulin DNA, autoimmune diabetes induction by, in NOD and RIP-B7.1 mice, 3237
 Vascular density, of transplanted pancreatic islet cells, in mouse, 1362
 Vascular dysfunction, ET-1 and, in insulin resistance, 3517
 Vascular endothelial growth factor
 blockade of, renal effects in *db/db* mice, 3090
 gene polymorphism, and diabetic retinopathy, 1635
 Vascular oxidant stress, in diabetes, 2846
 Vascular smooth muscle cells
 actin disorganization by insulin in, 2256
 hypermotile *cp/cp* cells, PDE3 and, 1194
 Vascular superoxide formation, glucose and, 2648
 Vasoactive intestinal peptide receptor VPAC2, agonist for type 2 diabetes, 1453
 Vasodilation
 impaired, NADH oxidase in, in OLETF rats, 522
 insulin effects on myocardial blood flow, 1125
 Very low-density lipoprotein triglycerides, secretion of, free fatty acids and, 1867
 Vesicular inhibitory amino acid transporter, expression in pancreatic islet cells, 1763
 Visceral fat, and insulin resistance and diabetes of aging, 2951
 Vitamin D receptor, mRNA and protein levels, in Bangladeshi Asians, 2294
 Voltage-dependent potassium channels (K_v), GLP-1 receptors and, in β -cells, S443
- W**
 Weight, and insulin resistance, in children, 3468
 Weight gain, plasma adiponectin levels and, 2964
 Weight loss
 by cholesterol metabolite MSI-1436, 2099
 long-chain acyl-CoAs and, in morbid obesity, 2959
 West of Scotland Coronary Prevention Study, C-reactive protein and diabetes risk, 1596
WFS1 gene, and type 2 diabetes in U.K., 1287
 White adipose tissue, DGAT1 overexpression in, in mice, 3189
 White blood cell count, and insulin sensitivity, 455
 Wolcott-Rallison syndrome, *EIF2AK3* mutation in, 2301
- Women**
 Hispanic, prevention of type 2 diabetes in, 2796
 with obesity, PPARGC1 gene locus and, 1281
 postmenopausal, insulin secretion versus insulin sensitivity in, S202
- X**
 Xanthine oxidase, in type 1 diabetes, 1118
 Xenograft rejection, islet, Th1 immune response in, 79
- Y**
 Young children, diabetes-associated autoantibodies in, emergence of, 646

Author Index

- A**
 Abbasi, S., 2587
 Abd el Baki, R.F., 3532
 Abdi, R., 2489, 3202
 Abe, M., 1737
 Abraham, P., 1214
 Absher, P.M., 1194
 Achouri, Y., 1722
 Adams, A.B., 265
 Ader, M., 574, 762, S212
 Adkins, A., 301
 Adorini, L., 1367
 Agersø, H., 424
 Aguilar-Bryan, L., 3440
 Ahima, R.S., 2099
 Ahmad, F., 2929
 Ahn, J.-M., 669
 Ahn, Y., 676
 Ahrén, B., S138, S202
 Ainscow, E.K., S162
 Aizawa, T., S29, S91, S96
 Akanuma, Y., 536
 Akbar, M.S., 398
 Akiyama, T., S478
 Alarcon, C., 2496
 Albinson, S.L., S377
 Albrechtsen, T., 1042
 Alderson, N.L., 2826
 Aldrichetti, L., 55
 Alexander, A.M., 356
 Allavena, P., 55
 Alleva, D.G., 2126
 Almasy, L., 841
 Almgren, P., 1609
 Alt, A., 1921
 Alto, N., S385
 Altomonte, J., 130, 2082
 Altshuler, D., 1629
 Alvarez, C., 392
 American Diabetes Association
 GENNID Study Group, 2170
 Amiel, S.A., 3384
 Amiri, F., 3505
 Ammatuna, M., 1690
 Amrani, A., 325
 Anai, M., 1737
 Anderson, D., 265
 Anderson, L.A., 1493
 Anderwald, C., 599, 3025
 Andrassy, M., 3532
 Andreolas, C., 2536
 Andres, R., 2698
 Anello, M., 1419, 1437, 2749
 Angius, E., 3573
 Anno, T., 712
 Anstadt, M.P., 3063
 Anteby, E., S68
 Anthony, J.C., 928
 Anthony, T.G., 928
 Antonelli, A., S474
 Antonescu, C.N., 2719
 Antony, I., 813
 Aoki, M., 2604
 Araki, S., 2264
 Araujo, E.P., 2270
 Arca, M., 860
 Ardecky, R.J., 1083
 Aretini, A., 168
 Ariens, R.A.S., 189
 Arima, T., 124
 Arisawa, K., 1391
 Arner, P., 484, 1601, 1876, 2025,
 3376
 Arnesen, H., 2637
 Arnoux, D., 2840
 Arredouani, A., 3245
 Arslanian, S.A., 3014
 Arvilommi, P., 646
 Arya, R., 841
 Asakura, T., 910
 Asano, T., 1737
 Aschenbach, W.G., 479, 567
 Asensi, M., 1118
 Ashcroft, A.E., 189
 Ashcroft, F., S368
 Ashcroft, F.M., 1896, 2789, S377
 Ashfield, R., 1896
 Ashworth, D., 1461
 Asnaghi, V., 2241
 Assmann, G., 2922
 Atkinson, L.L., 1548
 Atlan, C., 3326
 Attele, A.S., 1851
 Atzmon, G., 2951
 Aubert, M.L., 1461
 Auchincloss, H., Jr., 2489, 3202
 Augert, G., 1859
 Avogaro, A., 808
 Awata, T., 1635
 Azen, S.P., 2796
B
 Bacchi, C.E., 1529
 Bacci, V., 880
 Bach, F.H., 994
 Bach, H., 1
 Bagolin, E., 808
 Baier, L.J., 1618
 Bailbe, D., 1443
 Baj, G., S474
 Bajaj, M., 3043
 Bak, A., 1921
 Balamurugan, A.N., 2561
 Ban, N., 1409
 Banarer, S., 958, 1485
 Banchieri, M., 860
 Bandyopadhyay, G., 2936
 Bannan, M., 3063
 Baran, K., 152
 Barat-Houari, M., 1640
 Barbetti, F., 1240
 Barcos, M., 2596
 Barez, A., 366
 Barg, S., S33, S74
 Barker, D.J.P., 2321
 Barnes, B.R., 2703
 Barnett, A.H., 1493
 Baron, A.D., 3517
 Baroni, M.G., 860
 Barrett, E.J., 42, 3492
 Barrett, R., 2377
 Barrett, T., 1287
 Barry, L., 406
 Bar-Tana, J., 1548
 Bartels, E.D., 1233
 Barth, C., 3237
 Barth, R.N., 3220
 Barzilai, N., 1016, 2951
 Basu, A., 301
 Basu, R., 301
 Bataille, D., 406
 Batinic-Haberle, I., 347
 Batstra, M.R., 856
 Battezzati, A., 1690
 Bauersachs, J., 2648
 Bavenholm, P., 2074
 Baxi, S., 30
 Baynes, J.W., 2826
 Bean, J.S., 1083
 Beattie, G.M., 3435
 Beauchamp, M.-C., 1180
 Beauvais, C., 1470
 Becerra, S.P., 1218
 Becherer, J.D., 1876
 Becker, C., 3113
 Beck-Nielsen, H., 921, 2691
 Befroy, D., 797
 Begum, N., 2256
 Behrends, J., 2012
 Beilin, L.J., 2377
 Belin, V.D., 98
 Belke, D.D., 1166
 Bell, G.I., 247, 3561
 Bellmunt, M.J., 1535
 Benito, M., 743
 Bennett, P.H., 3120
 Bennett, S. Mc, 2037
 Benoit, S.C., 3196
 Bensch, W.R., 1083
 Ben-Shlomo, Y., 2313
 Berberat, P.O., 994
 Berenson, G.S., 204
 Beretta, E., 1729
 Berg, A.H., 2294, 2951
 Berg, A.-K., 1964
 Berg, C., 2405
 Bergamini, E., 1419, 1437
 Berger, D., 1035
 Berger, J., 2412
 Berger, V., 669, 2018
 Berggren, P.-O., 1425, S448
 Berglund, L., 3561
 Bergman, R., 1263
 Bergman, R.N., 574, 755, 762,
 1644, S212
 Bergsten, P., 699, 988, S50,
 S171
 Béringue, F., 385
 Berkowitz, K., 2796
 Bernal-Mizrachi, E., S484
 Bernroider, E., 49, 599, 3025
 Berral, F.J., 2596
 Berrebi-Bertrand, I., 1507
 Berria, R., 3043
 Berrino, L., 1076
 Bertera, S., 356, 2561
 Bertuzzi, F., 55
 Besti, M., 1291
 Betsholtz, C., 3107
 Betteridge, D.J., 3020
 Beylot, M., 3486
 Bézaire, V., 2459
 Bhanot, S., 1028
 Bhatia, A., 3229
 Bhatnagar, A., 3095
 Bhatt, H.S., 691
 Bianchi, G., 55
 Biarnés, M., 66
 Biason-Lauber, A., 2301
 Biden, T.J., 317, 977
 Bidouard, J.-P., 1470
 Bierhaus, A., 3532
 Bigam, D., 2148
 Bigelow, M., 2395
 Bihoreau, M.-T., 2975
 Bilakovics, J.M., 1083
 Bilan, P.J., 2719
 Bilous, R.W., 3083
 Bingham, E.M., 3384
 Bingley, P.J., 210
 Birtles, S., 2441
 Bischof, M.G., 49, 3025
 Bishara, N., 1859
 Björn, C., 2214
 Blaak, E.E., 784
 Blackstone, E., 803
 Blangero, J., 841, 3568
 Blankenhorn, E.P., 3254
 Blinder, Y., 265
 Block, M.H., 2441
 Blohmé, G., 1346
 Blondeau, B., 385
 Blows, F., 718
 Bluher, S., 2105
 Blum, W.F., 1166
 Bocchini, J.A., Jr., 2287
 Boden, G., 2005
 Bodson, A., 2012
 Boehm, B.O., 3237
 Boehme, S.A., 2126
 Boehnke, M., 1644
 Boel, E., 1042
 Boerwinkle, E., 231
 Bogardus, C., 455, 1618, 1884,
 1889, 3342, S262
 Boggi, U., 1419, 1437, S134
 Boileau, P., S343
 Boitard, C., S1, S285, S489
 Bojaryn, U., 3347
 Bokvist, K., 2514
 Bolinder, H., 3376
 Bolinder, J., 3376

- Bolli, G.B., 2911
 Boloker, J., 1499
 Bonadonna, R.C., S109
 Bonen, A., 3113
 Bonhomme, G., 1640
 Bonner-Weir, S., 413, 1793
 Booth, G., 1556
 Bootsma-van der Wiel, A., 1088
 Borch-Johnsen, K., 1, 3561
 Bordet, J.-C., 139
 Borecki, I.B., 848
 Borg, H., 1754
 Borge, P.D., S427
 Bosch, F., 624, 704
 Bot, M., 3135
 Bottino, R., 2561
 Bouchard, C., 848
 Boucher, A., S389
 Boucher, B.J., 2306
 Bougnères, P., S295, S304
 Bouhanick, B., 1214
 Bouillon, R., 2119
 Boulard, O., 2141
 Bounelis, P., 3461
 Boutin, P., 536, 1247
 Bouvet, C., 1214
 Bouwens, L., 686
 Bowden, D.W., S316
 Bowker-Kinley, M.M., 276
 Boyer, S., 2441
 Boyko, E.J., 1005
 Boyle, C., 2826
 Bradley, B., 347
 Bradley, S.J., 2572
 Braiman, L., 1921
 Brammar, G.C., 3274
 Brancati, F., 231, 3069
 Brand, E., 2653
 Brandenberger, G., S258
 Bratanova-Tochkova, T.K., S83
 Bravo, D., 2596
 Bréant, B., 385
 Breda, E., S227
 Brehm, A., 599, 3025
 Brekke, M., 2637
 Brennan, L., 1714
 Breslow, N., 1346
 Brestelli, J.E., 1997
 Briaud, I., 662
 Briek, A., 803
 Bril, A., 1507
 Brindle, K.M., 1714
 Brindley, D., 631
 Brinkmann, A.O., 3128
 Brizzi, M.F., 3311
 Broderick, C.L., 1083
 Brooks, D.A., 1083
 Broqua, P., 1461
 Brouard, S., 994
 Brown, J., 1997
 Brown, S.A., 2989
 Brownlee, M., 3107
 Brownsey, R., 943
 Brozinick, J.T., 1083
 Brulhart, M.-C., 557
 Brusgaard, K., 1240
 Bryan, J., 3440
 Bryner, K.D., 2817
 Bucala, R., 1785
 Buchanan, T.A., 1644, 2796
 Bucher, P., 557
 Buckingham, R.E., 1110, 1507
 Buettger, C., 1240
 Buhl, E.S., 2199
 Buhman, K.K., 3189
 Burdige, G.C., 2684
 Burgess, S., S389
 Burghardt, K., 73
 Burns, W.C., 3274
 Burrell, L.A., 3274
 Burrin, J.M., 2306
 Burt, N.P., 1629
 Busch, A.K., 977
 Buschard, K., 2514
 Bustin, S.A., 2306
 Butler, M., 1028, 2405
 Butler, P., S245
 Butler, P.C., S255
 Buzzetti, R., 1649
 Byrne, C.D., 1066

C
 Cabodi, S., 3311
 Cachefo, A., 3486
 Cai, L., 1146, 1938
 Cai, W., 2082
 Calcutt, N.A., 2249
 Camacho, R.C., 1310
 Camastra, S., 144, S130
 Camici, P.G., 3020
 Camoin, L., 1980
 Canani, L., 2264
 Canani, L.H., 1188
 Boyle, C., 2826
 Canning, P., 2826
 Cao, H., 3586
 Cao, Y., 114, 910, 1785
 Capeau, J., 1291
 Caprio, S., 1022
 Caramori, A., 3577
 Caramori, M.L., 506
 Cardin, S., 3151
 Carel, J.-C., 1980
 Carling, D., 159, 2703
 Carlisle Michel, J.J., S385
 Carlson, E.C., 174
 Carlsson, E., 3554
 Carlsson, P.-O., 699, 1362
 Carnaud, C., 2141
 Carnethon, M., 3524
 Carpenter, L., 317
 Carpentier, A., 1867
 Carr, A., 3163
 Carr, D.R., 1005
 Carr, R.D., 2789
 Carré, D., 1722
 Carroll, D., 2441
 Carter, L., 2190
 Carvalho, C.R.O., 2270
 Casado, M., 293
 Cascino, I., 1649
 Cascio, W.E., 3524
 Casellas, A., 624
 Caslake, M.J., 1596
 Cassader, M., 3311
 Cassell, P.G., 1622
 Castelli, A., 3311
 Castellotti, M.C., 385
 Castro, A., 1000
 Catalano, P.M., 2207
 Catena, C., 1226
 Caulfield, M., 30
 Caumo, A., 1690
 Cebrian, A., 3003
 Cederberg, A., 3554
 Cejvan, K., S381
 Celi, F.S., 880
 Cerasi, E., S1, S53, S68, 2552, S285, S320, S381
 Ceriello, A., 1076
 Cha, J.-Y., 676
 Chachich, M., 2826
 Chagnon, Y.C., 848
 Chakrabarty, S., 1391
 Chakravarti, A., 541
 Challier, J.-C., 2207
 Chan, B.W.H., 2811
 Chan, C.B., 3211
 Chan, D.C., 2377
 Chan, J.L., 2105
 Chan, K., 2811
 Chan, O., 1681
 Chan, S., 1681
 Chandra, D., 3095
 Chang, R., 2135
 Chareonthaitawee, P., 3020
 Charlesworth, J.C., S316
 Charpiot, P., 2840
 Charron, M.J., 2450
 Chen, C., 1986
 Chen, G., 541
 Chen, H., 1453
 Chen, H.C., 3189
 Cheng, H., S83
 Cheng, S., 1208
 Chentoufi, A.A., 1383
 Cheong, J., 3400
 Cherrington, A.D., 469, 1663, 3033, 3151, S103
 Chessler, S.D., 1763
 Cheung, M., 265
 Chevenne, D., 3473
 Chinnery, P.F., 2317
 Chisholm, D.J., 3163
 Choi, C.S., 915
 Choi, K.-Y., 676
 Choi, S.E., 2764
 Choi, Y.H., 3400
 Choleau, C., 3263
 Choo-Kang, A.T.W., 2317
 Chowdhury, S.A., 1391
 Christ, M., 2648
 Christa, L., 339
 Christensen, I.T., 2789
 Christesen, H.B.T., 1240
 Christie, I., 2817
 Christie, M.R., 2982
 Chu, N., 443
 Chu, N.V., 30
 Chu, W., 2861
 Chun, D., 2066
 Ciaraldi, T., 1035
 Ciaraldi, T.P., 30, 443, 2190
 Cinti, S., 144
 Cintron, V.J., 2450
 Citters, G. Van, S212
 Clampit, J., 2405
 Clark, A.D.H., 42, 3492
 Clark, M.G., 42, 1138, 3492
 Clark, M.L., 2684
 Clarke, K., 1110
 Clarkson, P., 2441
 Claus, T.H., 1453
 Clegg, D.J., 3196
 Clément, K., 1640
 Clerk, L.H., 1138
 Clifton, S.W., 1997
 Cline, G.W., 797, 2903
 Cnop, M., 1005, 2170
 Cobelli, C., S227
 Cobitz, A.R., 2066
 Cohen, P.T.W., 591
 Cohen, R.A., 198
 Coker, R.H., 1310
 Cole, M.A., 1110
 Colella, S., 168
 Colhoun, H.M., 1949, 3300
 Colige, A., 1093
 Collen, D., 1093
 Collier, G.R., 1859
 Collins, F.S., 1644
 Colombo, C., 2727
 Combes, V., 2840
 Comuzzie, A.G., 3568
 Concannon, P., 3318, S288
 Conlon, P.J., 2126
 Connell, D.W., 3412
 Considine, R.V., 1035
 Contu, D., 3573
 Converse, M., 1663, 3151
 Cooney, G.J., 152, 449, 1477, 2886
 Cooper, D.A., 3163
 Cooper, M.E., 3274, 3283
 Cooper, R.S., 541
 Copp, A.J., 2811
 Coppa, J., 1690
 Corbett, J.A., 311
 Cordery, D., 317, 977
 Coresh, J., 231, 3069
 Corkey, B.E., 2496
 Correia, M.L.G., 439
 Cottet, S., 1805
 Couper, J.J., 2282
 Couzens, M., 3420
 Cowan, S., 265
 Cox, N.J., 247, 3561
 Coy, D.H., S381
 Crane, A., 3440
 Crapo, J., 347
 Crawford, M., 356
 Crepaldi, G., 251
 Crosson, C.E., 1218
 Crowe, P.D., 2126
 Crozier, S.J., 928
 Cruz, C., 347
 Cruz, F. Dela, 1453
 Cryer, P.E., 724, 958, 1485
 Cucca, F., 3573
 Cuesta-Munoz, A., 1240
 Cunningham, J., 591
 Cunningham, P.G., 2959
 Cupples, L.A., 833
 Curtis, D., 1622
 Cusi, K., 462, 3043
 Cuthbertson, D.J.R., 591
 Cutson, J.J., 2727
 Czernichow, P., 385, 3473

D
 Dabrowski, M., 1896
 Dagnæs-Hansen, F., 3090
 D'Agostino, R., Jr., 1131, 1263, 2642
 Dahlgren, G.M., S152
 Dahl-Jorgensen, K., 2637
 Dahlquist, G., 1346
 Dahouk, S.A., 3237

- D'Alessio, D.A., 951
 D'Alfonso, S., 1649
 Dallas-Yang, Q., 2412
 Dalle, S., 406
 Daly, M.E., 2317
 Damico, C., 2903
 D'Amico, M., 1076
 Damotte, D., 2141
 Dana, S.L., 1083
 Danadian, K., 3014
 Daniel, S., S83
 Darmon, P., 2840
 Darwiche, R., 311
 Das, S.K., 2861
 da Silva Xavier, G., 2536
 Date, Y., 124
 Daubresse, J.-C., 2012
 Daume, E., 3229
 Davidson, M.B., 888
 Davies, D., 2313
 Davies, J.E., 2846
 Davis, B., 3283
 Davis, H.M., 2066
 Davoodi-Semiromi, A., 2334
 Dawson, D., 42
 Day, B., 347
 Day, H.L., 1346
 Dayan, C.M., 1745
 Dea, M.K., 574, 762
 Dean, N.M., 1028
 De Cicco, A., 2911
 De Cosmo, S., 3083
 de Craen, A.J.M., 1088
 de Faria, J.B.L., 1529
 De Feo, P., 2911
 Defilippi, P., 3311
 DeFronzo, R.A., 462, 3043
 de Galan, B.E., 790
 Degerman, E., 631
 de Jong, E.C., 2119
 de Jong, F.H., 3128
 Dekker, J.M., 884, 3135
 de Kreutzenberg, S.V., 808
 Dela, F., 1271
 de la Rosa, E.J., 770
 Délépine, M., 1291
 Delerive, P., 1507
 Del Guerra, S., 1437
 Delovitch, T.L., 215
 Del Prato, S., 1419, 1437, S109, S134
 DeLuca, H.F., 2306
 De Marchi, S., 1226
 de Murcia, J.M., 1470
 Demuth, H.-U., 652, 943, 2677
 Denny, J.C., 1310
 Dent, R., 2459
 Dentelli, P., 3311
 Denyer, G.S., 977
 de Pablo, F., 770
 Derave, W., 583
 Deruytter, N., 2141
 DeScipio, C., 3254
 Desco, M.-C., 1118
 de Silva, A., 1859
 Després, J.-P., 1629
 Desrois, M., 1110
 Deutsch, U., 3107
 Devaraj, S., 3049
 Devereux, R.B., 1543
 De Vos, A., S326
 de Vries, G., 1515
 De Vriese, A.S., 3090
 Dey, L., 1851
 Dezaki, K., 124
 Dhillon, H., 1729
 Diabetes Incidence in Sweden Study Group, 1346
 Diamant, N., 1425
 Diaz-Horta, O., 1815
 Di Carlo, V., 55
 Dicker, A., 2025
 Dickson, L.M., 966
 Dickson, S.L., 3412
 Dietz, K.R., 2113
 Dietze, D., 2369
 Di Filippo, C., 1076
 Dignat-George, F., 2840
 Dillmann, W.H., 1166
 Di Loreto, C., 2911
 Di Mario, U., 860, 1437, 1649
 Di Paulo, R., 2306
 Dina, C., 536, 1247, 1640, 3568
 Diraison, F., 2536
 Dobbins, R.L., 1825
 Dodge, K.L., S385
 Doebber, T., 2412
 Dohm, G.L., 901
 Dohm, L., 1035
 Dokladal, P., 3263
 Dolci, W., 1805
 Dong, H., 130
 Dong, H.-J., 2082
 Donker, A.J.M., 1515
 Donovan, S.J., 1066
 Donthi, R.V., 174
 Dopp, J.M., 734
 Doré, C., 1629
 Doria, A., 2294
 Dotta, F., 1437
 Dow, M., 479
 Downey, H.F., 1201
 Draper, N.J., 1110
 Draznin, B., 19
 Drivsholm, T., 1
 Drummond, K., 1572, 1580
 Dube, M.G., 1729
 Dubois-Lafforgue, D., S489
 Duddy, N., 2256
 Duffy, N., 2826
 Dufour, M., 406
 Dufour, S., 797, 1022
 Duggirala, R., 841
 Dugi, K.A., 867, 3532
 Dunkerley, H.A., 1194
 Dunn-Meynell, A.A., 2056
 Dupont, S., 3568
 Dupraz, P., 1805
 Durand, E., 1247
 Durham, M.M., 265
 Dutka, D., 3020
 Dutz, J.P., 2481
 Dyer, T.D., 841
 E
 Easom, R.A., 691
 Eaton, D.C., 3505
 Ebenbichler, C., 3331
 Ebihara, K., 243
 Echwald, S.M., 1, 3561
 Eckel, J., 2369
 Eckel, R.H., 1208
 Edgerton, D., S103
 Edgerton, D.S., 3151
 Efanov, A.M., S448
 Efendic, S., S1, 2074, S285, S381, S448
 Egebjerg, J., 1896
 Eggo, M.C., 1493
 Ehrlich, J., 1208
 Eirich, A., 2691
 Ek, I., 484
 Ekdahl, K.N., 1779
 Ekstrand, Y., 2214
 El-Asaad, W., S405
 Elbein, S.C., 528, 2861
 Elgue, G., 1779
 Eliasson, L., S74
 El-kholy, W., S434
 Ellard, S., 2329
 Eilershaw, L., 2441
 Elliot, S.J., 182
 Ellis, B.A., 449
 Ellis, R., 1745
 El Nahas, M., 3083
 Elving, L.D., 790
 Emeis, J.J., 1157
 Emoto, M., 871, 1523
 Endler, G., 3582
 Enerbäck, S., 3554
 Engel, T., 2922
 Engeli, S., 1699
 Engert, J.C., 1629
 Enocksson, S., 797
 Enoksson, S., 1022, 3376
 Epstein, P.N., 174
 Ercolino, T., 2294
 Erdos, M.R., 1644
 Ergul, A., 3063
 Eriksson, J.G., 2321, 2581
 Eriksson, K.-F., 1102
 Erkkilä, S., 646
 Erlich, H.A., 1208, 3336
 Escribano, A., 2596
 Esterbauer, H., 1281, 3331
 Etgen, G.J., 1083
 Eto, K., 87, 536, S414
 Etoh, T., 1588
 European Study for the Prevention of Renal Disease in Type 1 Diabetes (ESPRIT), 3083
 Evans, D.M., 1461
 Evans, G.W., 3524
 Evans, J.C., 247, 1622
 Evans, K., 2684
 Evertz, R., 1515
 Ewens, K.G., 3318
 Exner, M., 3582
 F
 Fabregat, M.E., 988
 Fabsitz, R.R., 1543
 Fahien, L.A., 2669
 Faith, J., 1629
 Fallahi, P., S474
 Fanelli, C., 2911
 Fant, J., 1218
 Faraci, F.M., 1931
 Farese, R.V., 2936
 Farese, R.V., Jr., 3189
 Farmer, B., 1663, 3151
 Farook, V.S., 3342
 Fastner, G., 1281
 Fattorini, A., 1690
 Faulds, G., 1601
 Federici, M., 1419, 1649
 Féliers, D., 3290
 Feng, Y., 1986
 Feng, Z., 271
 Fernández-Real, J.M., 1000, 2348
 Fernlund, P., 1754
 Ferran, C., 413
 Ferrannini, E., 144, 3020, S1, S130, S221, S285, S474
 Ferré, P., 1722, 2536
 Ferre, T., 704
 Ferrer, J., 2355
 Festa, A., 1131, 2642
 Fielding, B.A., 2467
 Fierabracci, V., S134
 Fijal, B.A., 1208
 Filippi, E., 860
 Finegood, D.T., 943, 1834, 2481
 Fingerlin, T.E., 1644
 Fink, D.J., 2227
 Finnish Diabetes Prevention Study Group, 2581
 Fioretto, P., 251
 Fischer, Y., 3113
 Fish, A.J., 506, 3577
 Fisher, E.A., 2082
 FitzGerald, L.M., S316
 Flamez, D., 2018, S326
 Flanagan, D., 1066
 Flatt, P.R., 366, 1714
 Fleckner, J., 1042
 Flier, J.S., 1035, 1337
 Flohé, S., 73
 Flores, S.C., 347
 Fluteau, G., 2141
 Flyvbjerg, A., 2199, 3090
 Folsom, A.R., 3069
 Fontana, S., 1356
 Fontés, G., 406
 Foote, K.M., 2441
 Forbes, J.M., 3274
 Forcheron, F., 3486
 Ford, I., 1596
 Formosa, M., 2572
 Fomon, A., 499
 Forsén, T.J., 2321
 Foufelle, F., 1722, 2536
 Francalacci, P., 3573
 Franch, J., 449
 Franckhauser, S., 624
 Frangioudakis, G., 2886
 Frank, M.A., 3290
 Frankowski, C., 3586
 Fraser, W., 2629
 Frati, G., 168
 Fratta, L., 168
 Frayling, T.M., 247, 1287, 2313
 Frayn, K.N., 2467, 2684
 Frederiksen, K.S., 1042
 Fredman, P., 2514
 Freeman, D.J., 1596
 Freshwater, J.D., 2249
 Fressinaud, P., 1214
 Freyssinet, J.-M., 2840
 Friedman, J.E., 19, 2207
 Frisk, G., 1964
 Fritsche, A., 37, 2854, S122, S234
 Fritz-Hansen, T., 3306
 Frizzell, N., 2826

- Froguel, P., 536, 1247, 1640, 3568
 Frölich, M., 1088
 Fromy, B., 1214
 Frongia, P., 3573
 Frost, L., 2405
 Fry, J.L., 3055
 Fryer, L.G.D., 2703
 Fuecker, K., 3102
 Fujii, N., 567
 Fujii, Y., 863
 Fujimiya, M., 1398
 Fujimoto, S., 2522
 Fujimoto, W.Y., 2170
 Fujisawa, T., 545
 Fujishiro, M., 1737
 Fujita, J., 2522
 Fujita, Y., 1398
 Fujitani, Y., 224, 2505
 Fukui, K., 910, 1785
 Fukushima, Y., 1737
 Fuller, J.H., 1949
 Funahashi, T., 1884, 2325, 2734, 2915, 2964
 Furler, S.M., 1477
 Furukawa, S., 712
 Furuyama, N., 2734, 2915
- G**
 Gaarde, W.A., 1028
 Gabrieli, I., 606, 893, 1016, 2179, 2951
 Gadalla, A.E., 2420
 Gaglia, J., 2135
 Gagnon, J., 848
 Gaisano, H.Y., 1425
 Galassetti, P., 469
 Gale, E.A.M., 210, 3353
 Galgani, A., 1649
 Gall, M.-A., 1157
 Gallina, S., 3568
 Gambino, R., 3311
 Gan, S.K., 3163
 Ganaway, E., 2895
 Gangnerau, M.-N., 392
 Gans, R.O.B., 1515
 Ganser, G., 2817
 Gao, G., 1218
 Gao, Y., 1859
 Gao, Z., S421, S427
 Garant, M.J., 231
 Garchon, H.-J., 1470, 2141
 García-Bragado, F., 1000
 García-Ocaña, A., 3003
 Gardiner, T.A., 2826
 Gartioux, C., 3326
 Garvey, W.T., 2895
 Gasparetti, A.L., 2270
 Gaspers, L., 2056
 Gastaldelli, A., S130, S221
 Gaster, M., 921
 Gaudet, D., 1629
 Gauguier, D., 2012, 2975
 Gaur, A., 2126
 Gauthier, A., 2459
 Gauthier, B.R., S333
 Gavrilova, O., 2113, 2727
 Gaw, A., 1596
 Geisler, J.G., 2158
 Gelding, S.V., 1622
 Gelling, R.W., 652
 Geng, X., 2481
- Gent, R., 2282
 Gentile, M.T., 168
 Gerber, S.H., S3, S12
 Gerhardinger, C., 3499
 Gerich, J.E., S117, S265
 Gertz, S.J., 1499
 Giacca, A., 1825
 Giancaterini, A., 144
 Giarratana, N., 1367
 Gibney, M.J., 2037
 Gibson, J.M., 2629
 Gillespie, K.M., 210
 Gilon, P., 376, 3245, S144
 Giordano, M., 1649
 Giorgi, G., 1649
 Girard, J., 1722, 1980, 2363
 Gittes, G.K., 3229
 Giugliano, D., 1076
 Gjinovci, A., S99
 Glaser, B., S308
 Glatz, J.F.C., 3113
 Gleason, C.E., 1772
 Glorioso, J.C., 2227
 Gloyn, A.L., 2313, 2329
 Godde, N., 1859
 Godefroy, T., 3473
 Goepfert, C., 2922
 Goico, J., 2796
 Goins, W.F., 2227
 Golden, S.H., 3069
 Goldstein, D.S., 3545
 Golub, T.R., 1319, 3176
 Gómez, P., 2596
 Gomis, R., 988
 Gonzalez, C., 1470
 Goodyear, L.J., 479, 567, 2074
 Gorogawa, S.I., 224
 Gorzelniak, K., 1699
 Gosmanov, A.R., 615
 Goss, J.R., 2227
 Goto, D., 2530
 Gotoda, T., 3368
 Gotow, T., 2505
 Gottlieb, P.A., 2126
 Gottsäter, A., 1754
 Goustin, A.S., 2450
 Goya, L., 392
 Graessler, J., 3102
 Graham, J., 1346
 Graham, T.E., 583
 Granner, D.K., 3362
 Grant, P.J., 189
 Grant, S.L., 3274
 Granzotto, M., 144
 Grattan, M., 215
 Greco, A.V., 144
 Green, A., 1493
 Green, N., S368
 Greenbaum, C.J., 951
 Greenberg, A.S., 2929
 Greene, D.A., 2619
 Greene, S.R., S427
 Gregori, S., 1367
 Gregory, S.G., 3318
 Greiner, D.L., 3254
 Greiwe, J.S., 1485
 Grey, S., 413
 Gribble, F., S368
 Gribble, F.M., 2757
 Grimsman, T., 2691
 Grobbee, D.E., 3128
 Groff, A., 413
- Gröfte, T., S255
 Gromada, J., 2514
 Groop, L., 1102, 2658, 3554
 Groop, L.C., 1609, 1629
 Gros, L., 704
 Gross, R., 406
 Grow, M.A., 1208
 Grunberger, G., 2450
 Gudbjörnsdottir, S., 2742
 Guerra, S. Del, 1419, S134
 Gueydan, C., 2012
 Guignot, L., 139
 Guillet-Deniau, I., 1722
 Guiot, Y., 3245
 Gum, R.J., 2405
 Gunawardana, S., S83
 Gunawardana, S.C., 105
 Gunnett, C.A., 1931
 Günther, A., 2648
 Günther, L., 994
 Guo, L., 1938
 Gurr, W., 339
 Gussekloo, J., 1088
 Gustafsson, J.-Å., 2426
 Guthrie, P.H., 2587
 Gutin, S., 3318
 Guy-Grand, B., 1640
 Gyure, K.A., 1957
- H**
 Hacohen, N., 1319
 Haering, H.U., 3532
 Hafer-Macko, C.E., 1957
 Haffner, S., 2642
 Haffner, S.M., 1131, 1263
 Haga, M., 994
 Hagberg, A., 79
 Hagenfeldt-Johansson, K., S333
 Hagopian, W.A., 1346
 Hagström-Toft, E., 3376
 Hagura, R., 536
 Haigh, R., 1461
 Haimbach, R.E., 2066
 Haimovici, R., 1565
 Halbleib, M., 2929
 Hale, D., 2135
 Hallett, W., 3384
 Hallsten, K., 3479
 Haluzik, M., 2113
 Halvatsiotis, P., 1913, 2395
 Hämäläinen, H., 2581
 Hamamoto, Y., 2522
 Hamann, A., 867, 3532
 Hamburger, F., 1805
 Hamilton-Wessler, M., 574, 762
 Hammerle, L.P., 1763
 Hammes, H.-P., 3107
 Hamren, S., 1453
 Han, D., 562
 Hanafusa, T., 114, 910, 1785
 Haneda, M., 1398
 Hanefeld, M., 3102
 Hanis, C.L., 231
 Hanley, A.J.G., 1263, 2642
 Hansen, A., 3077
 Hansen, A.M.K., 2789
 Hansen, B.C., 2936
 Hansen, B.F., 583
 Hansen, J.B., 1896, 2789
 Hansen, L., 3561
 Hansen, T., 1, 1240, 3561
 Hanson, R.L., 3120, 3342
- Hanssen, K.F., 2637
 Hao, E., 3435
 Hara, K., 536, 1247
 Harada, K., 3368
 Hardie, D.G., 284, 2420
 Harding, H.P., S455
 Häring, H., 37, 2341, 2854, S234
 Häring, H.-U., 1060, S122
 Harlan, D.M., 2135
 Harper, M.-E., 2459
 Harris, R.A., 276
 Hart, L.M., 3135
 Hart, M.E., 3435
 Harte, A.L., 1493
 Hasenkamp, W., 413
 Hashiguchi, S., 124
 Hashimoto, T., 1588
 Hashizume, K., S29
 Haskins, K., 347
 Hasstedt, S.J., 528, 2861
 Hattersley, A.T., 247, 1287, 2313, 2329
 Hauguel-De Mouzon, S., 2207
 Hauner, H., 2025, 2369
 Hausberg, M., 2434
 Havel, P.J., 1005, 1884
 Hawkins, M., 606, 893, 2179
 Hawley, S.A., 2420
 Hayase, F., 2833
 Hayashi, M., 2804
 Hayashi, M.C., 2833
 Hayden, E., 3582
 Hayek, A., 3435
 Haymond, M.W., 3170
 Haynes, W.G., 439, 2434
 He, J., 2944
 Heald, A.H., 2629
 Heathcote, K., 1291
 Heck, M., 2648
 Hedegger, M., 1281
 Hegarty, B.D., 1477
 Hegele, R.A., 3586
 Heine, R.J., 884, 3135
 Heiss, G., 3524
 Heistad, D.D., 1931
 Hellsten, Y., 284
 Hembree, M., 3229
 Heninger, A., 1375
 Henquin, J.-C., 376, 2552, 3245, S1, S60, S144, S177, S285
 Henry, R., 1035
 Henry, R.R., 30, 443, 2190
 Herchuelz, A., 366, 1815, 2773
 Hernández-Aguado, I., 1000
 Hernández-Sánchez, C., 770
 Herrera, P.L., S333
 Herrmann, S.-M., 2653
 Herzog, H., 3420
 Heutink, P., 856
 Hevener, A., 1907
 Hevener, A.L., 2968
 Hewage, C., 1714
 Hewson, A.K., 3412
 Hileman, S.M., 2099
 Hilsted, J., 3306
 Hines, K., 2135
 Hinke, S.A., 652
 Hino, M., 243
 Hiramatsu, Y., 2804
 Hirose, K., 87
 Hirschhorn, J.N., 1629
 Hirshberg, B., 2135

- Hirshman, M.F., 479, 567, 2074
 Hirte, C., 2282
 Hitman, G.A., 1622, 2306
 Hobbs, G.R., 2817
 Hodis, H.N., 2796
 Hoeldtke, R.D., 2817
 Hoffman, R.P., 734
 Hoffstedt, J., 484, 1601
 Hofmann, S.M., 2082
 Højlund, K., 921
 Hokanson, J.E., 1208
 Holder, J.C., 1493
 Hollenbaugh, D., 265
 Hollenberg, N.K., 2033
 Hollingdal, M., 424, S245
 Holly, J., 2313
 Holm, C., 484, 631
 Holmång, A., 2742
 Holmes, C., 3545
 Holmes, W.E., 1042
 Holst, J.J., 1271, S381
 Holst, L.S., 631
 Holzwarth, M., 2854
 Hong, K.W., 522
 Hong, S., 3400
 Hood, L., 1346
 Hoogwerf, B., 803
 Hopkins, D., 3384
 Horal, M., 2871
 Hori, H., 2387
 Hori, M., 224, 2505
 Horikawa, Y., 247, 3561
 Horikoshi, H., 2369
 Horiuchi, S., 2833
 Hornum, L., 1972
 Horta, O.D., 366
 Hosoda, H., 124, 3408
 Hosokawa, M., 1409
 Hotamisligil, G.S., 1876
 Houari, M., 3568
 Houmard, J.A., 901, 2959
 Houwing-Duistermaat, J.J., 856
 Hovi, T., 2568
 Howard, B.V., 1543
 Howell, R.T., 2329
 Howlett, K.F., 479, 567
 Høy, M., 2514
 Hruay, V.J., 669
 Hruz, P.W., 937
 Hu, M., 3440
 Huang, B., 276
 Huang, C., 506, 2090, 3577
 Huang, G.-C., 2982
 Huang, P., S183
 Huang, X., 1102, 1425
 Huang, Y., 2481
 Huber, K., 3582
 Hudson, T.J., 1629
 Huecking, K., S212
 Hugel, B., 2840
 Hugh, P., 2377
 Hugl, S.R., 966
 Huizenga, N.A.T.M., 3128
 Hul, G., 2220
 Hull, R.L., 1005, 2170
 Hundal, R.S., 797
 Hung, C., 1208
 Hunton, D.L., 3461
 Huston-Presley, L., 2207
 Hutchinson, J., 3063
 Hyöty, H., 2568
- I**
 Ido, Y., 159
 Igawa, K., 1663, 3033
 Iglesias, M.A., 2886
 Iglseder, B., 1281
 Ihara, A., 114, 910
 Ihara, Y., 1409
 Iida, M., 2530
 Iino, M., 87, S25
 Iizuka, K., 114
 Iizuka, Y., 3368
 IJzerman, R.G., 1515
 Ikeda, T., S478
 Ikegami, H., 545
 Ikekubo, K., 243
 Ikezaki, A., 3408
 Ilanne-Parikka, P., 2581
 Ilcic, A., 1543
 Ilic, V., 2467
 Ilonen, J., 646
 Imagawa, A., 114, 910
 Imamura, M., 1588
 Imbert, J., 3326
 Imes, S., 2148
 Imperatore, G., 3120
 Inaba, M., 1523
 Ingram, A., 1146
 Inoguchi, T., 1588
 Inoue, H., 712, 1672
 Inoue, I., 1635
 Inoue, K., 1635
 Inouye, K., 1681
 International Diabetic
 Nephropathy Study Group,
 1572, 1580
 Inukai, K., 1635, 1737
 Inzucchi, S.E., 797
 Iordanova, N., 3582
 Iozzo, P., 3020
 Ishibashi, S., 3368
 Ishihara, H., 2387
 Ishihara, T., 243
 Ishiki, M., 2387
 Ishiyama, N., S60
 Islam, M.S., 1299
 Issad, T., 1980
 Isshiki, K., 2709, 2804
 Itani, S.I., 2005
 Ito, C., 536
 Ito, K., 3408
 Ivey, F.M., 1957
 Iwahashi, H., 114, 910, 1785
 Iwakura, T., 243
 Iwama, S., 3408
 Iwase, M., 2530
- J**
 Jackson, A.E., 1622
 Jackson, E.B., 3095
 Jacobsen, B.B., 1240
 Jahnke-Dechent, W., 2450
 Jain, S.K., 2287
 Jakobsen, G., 424
 James, L.R., 1146
 Jami, J., S489
 Janer-Villanueva, M., 1346
 Janez, A., 1907
 Janiak, P., 1470
 Janke, J., 1699
 Janosky, J., 3014
 Janssen, J.A.M.J.L., 3128
 Jansson, L., 1362
- Jansson, T., 2214
 Januszewski, A.S., 2826
 Jaquet, D., 3473
 Jaquet, M., 1805
 Jartti, L., 493
 Jarvisalo, M.J., 493
 Javorschi, S., 2968
 Jaworski, K., 3283
 Jefferson, A., 2329
 Jefferson, L.S., 928
 Jeffery, A.N., 3468
 Jeffery, S., 1291
 Jen, K.-L.C., 2450
 Jenkins, J.B., 3055
 Jensen, C.B., 1271
 Jensen, C.C., 2170
 Jensen, J., 449
 Jensen, J.N., 3561
 Jensen, M.D., 301
 Jensen, M.V., S389
 Jenssen, T., S265
 Jerums, G., 3274
 Jessen, N., 2199
 Ji, J., 1425
 Jialal, I., 3049
 Jiang, G., 2412
 Jiang, Y., 1938
 Jimmo, S.L., 1194
 Jin, L., 2126
 Jin, Z.Z., 1391
 Jirousek, M.R., 2405
 Johansson, B.-L., 3077
 Johnson, C.M., 301
 Johnson, E.B., 2126
 Johnson, G.C.L., 2866
 Johnson, K., 2190, 2903
 Johnson, L.M., 662
 Johnson, L.N., 3318
 Johnson, W.T., 1083
 Joly, E., S405
 Jonas, J.-C., 413, S60, 2552,
 3245, S144, S177
 Jones, P.M., 98
 Jorgensen, S.B., 284
 Joseph, J.W., 3211
 Jucker, B.M., 2066
 Juhl, C., S245, S255
 Juhl, C.B., 424
 Julius, U., 3102
 Jun, H.-S., 2764
 Jung, C.-H., 3400
 Jung, S.-K., S152
 Junien, J.-L., 1461
 Just, M.L., 3435
- K**
 Kachadourian, R., 347
 Kadowaki, H., 536
 Kadowaki, T., 87, 536, S25,
 1247, 2727, S414
 Kaestner, K.H., 1997, 2546
 Kahn, B.B., 443
 Kahn, C.R., 743, S43
 Kahn, S.E., 1005, 2170
 Kaisaki, P.J., 2012
 Kaiser, N., S68, 2552
 Kajikawa, M., 2522
 Kajimoto, Y., 224, 2505
 Kakimoto, M., 1588
 Kalhan, S.C., 2207
 Kalliokoski, K., 1125
 Kalra, P.S., 1729
- Kalra, S.P., 1729
 Kamagate, A., 366, 1815, 2773
 Kamano, C., 3220
 Kan, D., 541
 Kaneda, Y., 2604
 Kaneto, H., 413, 1793
 Kang, L., 2056
 Kang, Y., 2764
 Kang, Y.J., 1938
 Kangawa, K., 124, 3408
 Kannan, K., 2287
 Kanninen, T., 1609
 Kanoh, Y., 2936
 Kantham, L., 1859
 Kao, R., 1565
 Kao, W.H.L., 231
 Kapellen, T.M., 2474
 Karges, W., 3237
 Karkanas, G., 271
 Karpe, F., 2467
 Karpinska, A., 3347
 Karray, S., 1470
 Karter, A.J., 2642
 Kasai, H., S19, S25
 Kashiwagi, A., 1398
 Kashyap, S., 3043
 Kasper, M., 3532
 Kasuga, M., 1391, 1672, 2045
 Katagiri, H., 1737
 Katayama, S., 1635
 Kato, K., 863
 Kauffman, R.F., 1083
 Kauri, L.M., S152
 Kausch, C., 1060
 Kaushal, K., 2629
 Kavaslar, G.N., 2459
 Kawabata, Y., 545
 Kawaguchi, Y., 545
 Kawamori, R., 238
 Kawamoto, T., 2325
 Kawasaki, I., 871
 Kay, T.W.H., 311
 Keinänen-Kiukaanniemi, S.,
 2581
 Kelley, D.E., 2944
 Kelley, R., 3095
 Kelly, A., S421
 Kelly, D.J., 3283
 Kelly, S.E., 1548
 Kelpe, C.L., 662
 Kennedy, A., 2895
 Kennedy, J.M., 2233
 Kennedy, R.T., S43, S152
 Kenyon, N.S., 265, 562
 Kergoat, M., 1443
 Kern, T.S., 1172, 2241
 Kerr, L., 1859
 Keskinen, P., 646
 Khandoudi, N., 1507
 Kiens, B., 583
 Kiess, W., 2474
 Kihara, S., 2325, 2734, 2915
 Kikkawa, R., 1398
 Kikuchi, M., 1737
 Kilker, R., 1989
 Kim, C.D., 522
 Kim, D., 443
 Kim, D.D., 30
 Kim, H., 676
 Kim, H.M., 2764
 Kim, I.J., 522
 Kim, J., 676

- Kim, J.H., 2764
 Kim, J.K., 2113
 Kim, K.-S., 676, 2764
 Kim, S.-Y., 676
 Kim, Y., 506, 3577
 Kim, Y.-B., 443
 Kim, Y.K., 522
 Kimball, S.R., 928
 Kimpimäki, T., 646
 Kimura, R., S25
 Kimura, S., 87, 536, 536, 3368
 Kinae, N., 2833
 Kinalska, I., 3347
 Kinalski, M., 3347
 King, G.L., 2709, 2804
 Kingwell, B.A., 2572
 Kirk, A.D., 2135
 Kirkby, J., 3468
 Kirkman, E.L., 755
 Kirwan, J.P., 2207
 Kishi, A., 1398
 Kishi, M., 819
 Kishida, K., 2734, 2915
 Kishimoto, K., 3202
 Kishimoto, T., S19
 Kjems, L.L., S177
 Kjos, S.L., 2796
 Klannemark, M., 2658, 3554
 Klein, H.H., 2691
 Klein, J.-C., 3263
 Kliewer, S.A., 901
 Klip, A., 2090, 2719
 Kloeting, I., 3532
 Klover, P.J., 3391
 Kneteman, N.M., 2148
 Knip, M., 646
 Knopp, R.H., 1005
 Knowler, W.C., 2964, 3120
 Knowles, N.G., 1005
 Knudsen, E., 1157
 Knudsen, J., 449
 Knuuti, J., 1125, 3479
 Kobayashi, H., 243, 3229
 Kobayashi, M., 2387
 Kochik, S., 1375
 Kockum, L., 1346
 Koenen, M., 2369
 Koepf, J., 347
 Koerner, S.M., 3283
 Koga, M., 712
 Kohl, C., 2363
 Koide, T., 2811
 Kojima, H., 1398
 Kojima, I., 1398
 Kojima, M., 124, 3408
 Kolb, H., 73
 Komatsu, M., S29, S91, S96, 1523
 Kondo, C., 3408
 Kondo, H., 2325, 2734, 2915
 Kong, A., 443
 Kong, A.P.S., 30
 Konrad, D., 2719
 Koonen, D.P.Y., 3113
 Koper, J.W., 3128
 Kopprasch, S., 3102
 Koranyi, L., 1102
 Korbitt, G.S., 2148
 Korhonen, S., 646
 Korgren, O., 79, 1779
 Korytkowski, M., S265
 Kosaka, H., 2505
 Koshkin, V., 3211
 Koskela, P., 2568
 Kösters, C., 3554
 Kotani, R., 1391
 Koulmanda, M., 3202
 Kovacs, P., 1618
 Koyama, H., 1523
 Koyama, Y., 1310
 Kraegen, E.W., 152, 1477, 2886, 3163
 Krakoff, J., 2964
 Kralik, P.M., 174
 Kratzsch, J., 2105
 Kraus, W.E., 901
 Krebs, M., 49, 599
 Krempfer, F., 1281, 3331
 Kretowski, A., 3347
 Kreuzer, J., 867
 Krief, P., S489
 Kristensen, K., 1
 Kroeger, P., 2405
 Krolewski, A.S., 1188, 1655, 2264
 Krook, H., 79
 Krssak, M., 49, 599, 3025
 Kruhoffer, M., 2018
 Kruszynska, Y.T., 2968
 Kruys, V., 2012
 Krzentowski, G., 2012
 Kubosaki, A., 1842
 Kubota, N., 87
 Kudo, M., 1398
 Kuhlisch, E., 3102
 Kühne, H., 3102
 Kulkarni, R.N., S43
 Kumada, M., 2325
 Kumagai, N., 3220
 Kumar, S., 1493
 Kupila, A., 646
 Kurahachi, H., 243
 Kurihara, S., 1635
 Kuriyama, H., 2734, 2915
 Kuroki, T., 1921
 Kurucz, I., 1102
 Kuwayama, Y., 224
 Kuznetsov, A., S183
 Kwok, W.W., 1375
 Kwon, G., 2877
- L**
 Laakso, M., 2321, 2581
 La Cava, A., 1356
 Lacomis, D., 2227
 Lacorne, M., 392, 1443
 Lacy, D.B., 1310
 Ladd, C.M., 3176
 Lafontan, M., 293
 Lahlou, N., 1980
 Laine, H., 1125
 Lajoix, A.-D., 406
 Lakey, J.R.T., 2148, 2158, 3428, 3435
 LaMattina, J.C., 3220
 Lamberts, S.W.J., 3128
 Lampis, R., 3573
 Lan, M.S., 1842
 Landchild, M.J., 1005
 Landegren, U., 79
 Landin-Olsson, M., 1346
 Landström, T.R., 631
 Lang, C.H., 928
 Lang, C.M., 3055
 Langeberg, L.K., S385
 Langer, C., 2922
 Langin, D., 293
 Lang-Muritano, M., 2301
 Lansang, M.C., 2033
 Lardon, J., 686
 Larkin, D., 2619, 3510
 Larsen, C.P., 265
 Larsen, J., 2637
 Larsson, H., S202
 Larsson, H.B.W., 3306
 Larsson, R., 1779
 Lathrop, M., 1291, 3326
 Latif, F., 1287
 Laue, S., 2474
 Lauer, M.S., 803
 Launer, L.J., 1256
 Lauritsen, M., 1233
 Lauro, R., 1419
 Lawrence, M.C., 691
 Laybutt, D.R., 413, 1793
 Lazzeroni, L.C., 3336
 Leach, R.J., 841
 Lebet, J., 1793
 Lebon, V., 797, 1022
 Lebouc, Y., 1980
 LeBrigand, L., 406
 Lebrun, P., 1896
 Lechler, R.I., 1356
 Lecoeur, C., 1247
 Leconte, J., 2135
 Ledet, T., 2199
 Ledoux, S., 813
 Lee, C.S., 1997, 2546
 Lee, E.T., 1543
 Lee, F., 3274
 Lee, F.N., 915
 Lee, I., 545
 Lee, J., 2135
 Lee, K., 3400
 Lee, M.-S., 522
 Lee, M.Y., 3400
 Lee, N.T., 676
 Lee, W.S., 522
 Lefer, A.M., 1556
 Leff, T., 3586
 Le Fur, S., S304
 Lehmann, I., 2474
 Lehtimäki, T., 493
 Lehto, M., 1609
 Leif, J., 3254
 Leighton, B., 2587
 Leinikki, P., 2568
 Leiter, E.H., 825
 Le Lay, S., 1722
 Lembo, G., 168
 Lenders, J.W., 790
 LeNguyen, D., 406
 Leon, A.S., 848
 Leone, B.E., 55
 Leonetti, F., 860
 Lepage, P., 1629
 Lepercq, J., 2207
 Lernmark, Å., 1346, 2997
 Le Stunff, C., S304
 Leung, M.B.W., 2811
 Leung, N., 1867
 Levin, B.E., 2056
 Levin, K., 2691
 Lévi-Strauss, M., 1470
 Levy, E.R., 2329
 Levy, J.C., 2012
 Lévy-Marchal, C., 3473
 Lewis, G.F., 1867
 Lewy, V., 3014
 Li, A.-F., 1565
 Li, C., S421
 Li, F., 2619
 Li, H., 1609
 Li, L.S., 1346
 Li, M., 114
 Li, Q., 1986
 Li, W., 1938
 Li, W.-D., 1989
 Li, X., 1425
 Li, Y., 1218, 1453
 Li, Z., 2082, 2412, 2922
 Liang, Q., 174
 Liang, Y., 1453
 Liao, D., 3524
 Liaudet, L., 514
 Liebetrau, C., 2648
 Light, P.E., S434
 Lijnen, H.R., 1093
 Lim, G., 2287
 Lima, M.H.L., 2270
 Lin, J., 3107, S308
 Lin, J.-M., 988
 Lindgren, C.M., 1609, 2658
 Lindi, V., 2321
 Lindi, V.I., 2581
 Lindner, J.R., 42
 Lindsay, R.S., 455, 1884, 1889, 2964
 Lindström, J., 2581
 Ling, N., 2126
 Ling, Z., 2982
 Lingohr, M.K., 966
 Linnemayr, V., 1281, 3331
 Lippiat, J.D., S377
 Lipsett, M., 1834
 Liss, P., 699
 Lithell, H., 3561
 Liu, A.W., 1375
 Liu, F., 2412
 Liu, L.H., 3245
 Liu, S., 1083
 Liu, T.-T., S19
 Liu, W.-H., 2241
 Liu, Y.-J., S83
 Liu, Z., 2719
 Livingston, J.N., 1453
 Ljunqvist, O., 2074
 Löbner, K., 2982
 Lodish, H.F., 1319, 3176
 Loeken, M.R., 2804, 2811, 2871
 Loftager, M., 574, 762
 Lohmann, T., 2474
 Lönn, L., 2742
 Lönnqvist, F., 2025, 3479
 Lönnroth, P., 2742
 Lopaschuk, G.D., 1548
 Lopez, A.D., 3435
 López-Bermejo, A., 2348
 Lopez-Casillas, F., 2536
 López-Miranda, J., 2596
 Loreda-Osti, J.C., 1629
 Lorenzi, M., 2241, 3499
 Lorkowski, S., 2922
 Louheranta, A., 2581
 Love-Gregory, L., S308
 Lovischach, M., 30
 Low, P.A., 819
 Lowe, G.D.O., 1596

Lowe, R.M., 1346
 Lowell, B.B., 3211
 Loxham, S.J.G., 2441
 Lteif, A., 3517
 Lu, D., S389
 Lucas, S., 293
 Lucidi, P., 2911
 Luft, F.C., 1699
 Luiken, J.J.F.P., 3113
 Luiza, M., 3577
 Luke, A., 541
 Lund, S., 2199
 Lundqvist, A., 3107
 Luotolahti, M., 1125
 Lupi, R., 1419, 1437, S134, S474
 Luster, A.D., 2489
 Luther, M.J., 98
 Lutterman, J.A., 790
 Luzi, L., 1690
 Ly, H., 1146
 Lynn, S., 247, 2317

M

Ma, J., 1218, S308
 Ma, L., S183
 Ma, X.H., 1016, 2951
 Ma, Y.-Z., 1022
 Maassen, J.A., 884, 3135
 Mabley, J.G., 514
 Macdonald, I.A., 2467
 MacDonald, K.G., 2959
 MacDonald, M.J., 2669
 MacDonald, P.E., S434, S443
 Machicao, F., 37, 1060, 2854
 Macianskiene, R., 366
 Macko, R.F., 1957
 MacLean, D.A., 928
 Madaus, A., S234
 Madsbad, S., 1271, 2514
 Maechler, P., S37, S89
 Maeda, N., 2734, 2915
 Maegawa, H., 1398
 Maeno, T., 1523
 Maerker, E., 2854, S234
 Maffei, A., 168
 Maffi, P., 55
 Magnuson, M.A., 1240
 Magré, J., 1291
 Maioli, M., 3573
 Mairal, A., 293
 Makhoul, L., 2489, 3202
 Makino, H., 863, 3362
 Malmberg, A.B., 2249
 Malthouse, J.P.G., 1714
 Manco, M., 144
 Mandarino, L., 3043
 Mandarino, L.J., 462
 Manganiello, V., 631
 Manganiello, V.C., 2929
 Manhart, S., 652
 Manna, P., 3229
 Mannan, N., 2306
 Mannhalter, C., 3582
 Mantzoros, C.S., 1337, 2105
 Maquoi, E., 1093
 Marandi, L., 2975
 Marchase, R.B., 3461
 Marchetti, P., 1419, 1437, S109, S134, S474
 Marculescu, R., 3582
 Marcus-Samuels, B., 2113
 Marfella, R., 1076
 Mari, A., S130, S221
 Marín, C., 2596
 Marinescu, V., 2619
 Marion, E., 2012
 Mark, A.L., 439, 2434
 Markholst, H., 1972
 Markussen, J., 574
 Mariuss, E.B., S271
 Márquez, R., 1118
 Marrero, M.B., 3505
 Marroquin, A., 2796
 Marsden, P.K., 3384
 Marselli, L., 1419, 1437, S134, S474
 Marsh, D.J., 778
 Marsh, P.J., 98
 Marshak, S., S320
 Marshall, C.A., 2877
 Marshall, S.M., 3083
 Martell, S.K.Y., 2612
 Martin, L.J., 3568
 Martínez-Valls, J., 1118
 Mas, A., 704
 Mashima, H., 3561
 Masini, M., 1419, 1437
 Masoni, A., S130
 Massa, O., 1240
 Masters, D.J., 2441
 Masuda, S., 2833
 Masugi, J., 2045
 Mata, M., 2227
 Matarese, G., 1356
 Mather, K.J., 3517
 Mathews, S.T., 2450, 3586
 Mathieu, C., 2119
 Matschinsky, F.M., 1240, 2546, S394, S421
 Matsubara, K., 536
 Matsuda, F., 3326
 Matsuda, M., 2325, 2734, 2915
 Matsuhisa, M., 224
 Matsui, J., S414
 Matsukawa, Y., 2325
 Matsukura, S., 124
 Matsumoto, K., 2604
 Matsumoto, M., 1672
 Matsumura, I., 1785
 Matsuo, H., 124
 Matsuo, K., 712
 Matsuo, K., 3408
 Matsuzawa, Y., 114, 910, 1785, 1884, 2325, 2734, 2915, 2964
 Matthews, S.G., 1681
 Mattsson, G., 1362
 Mauer, M., 506, 1572, 1580, 3577
 Maurice, D.H., 1194
 Mayer, M., 2066
 Mayerson, A.B., 797
 Mazzaferro, V., 1690
 Mazzarelli, J., 1997
 McAulay, P., 2441
 McCarthy, A., 2313
 McCarthy, J.R., 1083
 McCarthy, M.L., 1287
 McClenaghan, N., 1714
 McConell, G.K., 2572
 McCuaig, J.F., 966
 McDaniel, M.L., 2877
 McDermott, M.F., 2306
 McDonough, A.A., 915
 McGarry, J.D., 7, 1825
 McGregor, V.P., 958, 1485
 McGuinness, O.P., S103
 McIntosh, C.H.S., 652, 943, 2677
 McIntosh, T.S., 2066
 McKay, R.A., 1028
 McLaughlin, P.J., 3055
 McLennan, S.V., 2612
 McMillan, J.S., 1859
 McNeill, D.R., 2817
 McOsker, C.C., 3196
 McPherson, R., 2459
 McTernan, P.G., 1493
 McVie, R., 2287
 McWeeney, S.K., 1997
 Meagher, C., 215
 Medina, G., 1035
 Mei, J., 631
 Mei, Q., 2997
 Meigs, J.B., 833
 Meile, M.-J., 1443
 Melander, O., 1609
 Melis, A., 1226
 Melloul, D., S320
 Melton, D.A., 1997
 Melzi, R., 55
 Ménard, B., 1052
 Menshikova, E.V., 2944
 Mentuccia, D., 880
 Mentz, S., 3532
 Menzaghi, C., 2294
 Merfert, M.G., 3510
 Merz, W., 3532
 Meseck, M., 130
 Metcalf, B.S., 3468
 Meyer, M., 1166
 Meyer, M.M., 2691
 Meyer, U., 875
 Meyerspeer, M., 599
 Mi, Q.-S., 215
 Mieulet, V., 1722
 Miki, T., 1523
 Miles, P.D.G., 3176
 Milici, A.J., 2158
 Miller, K., 3331
 Miller, M.E., 506, 3577
 Mingrone, G., 144
 Minton, J.A.L., 1287
 Mirel, D.B., 3336
 Mironczuk, K., 3347
 Mirzamohammadi, B., 3517
 Misener, E.A., 1083
 Mitchell, J.L., 2434
 Mitchell, S.M.S., 2313
 Mithieux, G., 139
 Mitrakou, A., S265
 Mittelman, S.D., 755
 Miura, N., 3408
 Miwa, A., S25
 Miyagawa, J.I., 114, 910, 1785
 Miyake, K., 1672
 Miyashita, Y., S25
 Miyatsuka, T., 2505
 Miyawaki, K., 1409
 Mockel, J., 2012
 Moczulski, D., 2264
 Moens, K., 669
 Mogenet, L., S489
 Mohideen, P., 443
 Mohlke, K.L., 1644
 Mohr, S., 1172
 Moibi, J., S427
 Moller, D.E., 2074, 2412
 Mondal, M.S., 124
 Monemdjou, S., 2459
 Monia, B.P., 1028, 2405
 Monohan, M., 469
 Montanya, E., 66
 Montgomery, A.M.P., 3435
 Montgomery, S., 2135
 Monti, P., 55
 Montolio, M., 66
 Montoliu, L., 704
 Montrose, C.R., 1083
 Moon, S.E., 3510
 Mooney, R.A., 3391
 Moore, D., 574, 762
 Moore, M.C., 469, 1663
 Mora, C., 339
 Moran, S.G., 3220
 Morcos, M., 3532
 Mordes, J.P., 3254
 Morel, P., 557
 Morelli, L., 3573
 Moreno, J.A., 2596
 Morgan, D.A., 439, 2434
 Morgan, K., 271
 Mori, T.A., 2377
 Mori, Y., 536, 1247
 Morishita, R., 2604
 Moriwaki, M., 114
 Morral, N., 130
 Morris, J., 2629
 Morrison, V.A., 3318
 Morroni, M., 144
 Morva, A., 1102
 Mosca, F., 1419, 1437, S134
 Moschos, S., 1337
 Motheral, T., 2126
 Mubagwa, K., 366
 Mudaliar, S., 30, 443, 2190
 Mueckler, M., 937
 Mugavero, M., 3033
 Muhlmann, M., 2572
 Mukai, E., 2522
 Mulvaney-Musa, J., S83
 Munaut, C., 1093
 Mundinger, T.O., 2997
 Muñoz, S., 624
 Munro, S., 591
 Muoio, D.M., 901
 Mur, C., 743
 Murakami, A., 863
 Murakami, S., 2387
 Murata, H., 937
 Murdolo, G., 2911
 Murphy, M.J., 3468
 Murray, S.F., 1028
 Murru, D., 3573
 Musi, N., 2074
 Myers, L., 204
 Myers, R.H., 833
 Myhill, J., 1825
 Mystkowski, P., 778

N

Nacher, V., 66
 Nagai, R., 536, 2833
 Nagaretani, H., 2734, 2915
 Nagata, M., 1391
 Nair, K.S., 301, 1913, 2395
 Najafian, N., 2489
 Nakagami, H., 2604
 Nakagawa, K., S478
 Nakai, K., 712

- Nakajima, K., 238
 Nakamura, T., 1398, 2604, 2734, 2915
 Nakano, Y., 536
 Nakao, K., 243
 Nakayama, M., 1391
 Nakazaki, M., 3440
 Nakazato, M., 124
 Namba, M., 910
 Nammo, T., 114, 1785
 Nano, R., 55
 Nappo, F., 1076
 Naquet, P., 3326
 Narushima, Y., S478
 Näslund, E., 2025
 Nata, K., S478
 Natali, A., S130
 Nawata, H., 1588
 Nawaz, Z., 2719
 Nawroth, P.P., 867, 3532
 Neal, D., 3151
 Neal, D.W., 469, 1663, 3033
 Nègre-Salvayre, A., 1535
 Negut, C., 808
 Nemoto, T., S25
 Nennesmo, I., 3376
 Nenquin, M., S60, 3245
 Nepom, G.T., 1375
 Nervi, S., 3326
 Neshier, R., S53, S68, 2552
 Nesti, C., S474
 Netherton, S.J., 1194
 Neugebauer, B., S363
 Newgard, C.B., 3141, S389
 Newsholme, P., 1714
 Ng, D.P.K., 1188, 2264
 Ng, L.L., 2846
 Ngo, P., 462
 Nguyen, L., S240
 Nian, C., 652
 Nicaud, V., S473
 Nicod, P., 1052
 Nicodeme, S., 3326
 Nielsen, L.B., 1233
 Nietzsche, U., 2474
 Nijpels, G., 884
 Nijveldt, R., 1515
 Nikoulina, S.E., 2190
 Nilsson, B., 1779
 Nishimiya, T., 863
 Nishino, M., 545
 Nishino, N., 2045
 Nishio, Y., 1398
 Nishizawa, H., 2734, 2915
 Nishizawa, Y., 871, 1523
 Nisticò, L., 1649
 Nitenberg, A., 813
 Niu, T., 1986
 Niu, W., 2090, 2719
 Noble, J.A., 3336
 Noda, M., 87, S414
 Noguchi, N., S478
 Nomiyama, T., 238
 Noonan, K., 2306
 Noone, E., 2037
 Norman, R.A., 2968
 Norrie, J., 1596
 North, B.V., 1622, 2306
 Nosadini, R., 251
 Notkins, A.L., 1842
 Novak, E.J., 1375
 Novak, S., 3254
 Novelli, M., S134
 Nowak, I.A., 3391
 Nowotny, P., 49, 599, 3025
 Nutland, S., 2866
 Nuutila, P., 1125, 3479
 Nygren, J., 2074
O
 Oanh, P., 1772
 Oberholzer, J., 557
 Oberkofler, H., 1281, 3331
 Obici, S., 271
 O'Brien, B.A., 2481
 O'Brien, K., 3318
 Ochi, M., 863
 Ochoa, C., 2796
 O'Connell, P., 841
 O'Connor, J., 3300
 Odili, S., 1240
 Ogawa, W., 1672
 Ogawa, Y., 243
 Ogihara, T., 238, 545, 1737, 2604
 Ogilvie, K.M., 1083
 O'Grady, M.J., 1543
 Ogunkolade, B.-W., 2306
 Ogura, T., 3362
 Ohashi, J., 863
 Ohashi, K., 3368
 Ohkubo, T., 1635
 Ohlstein, D.H., 2066
 Ohta, Y., 712
 Oka, Y., 712, 1737
 Okada, T., 536, 1247
 Okado, H., S25
 Okamoto, H., S462, S478
 Okazaki, H., 3368
 Okita, K., 114
 Oksanen, A., 3479
 Okuno, Y., 1523
 Oldham, B.A., 1083
 Olefsky, J., 1907
 Olefsky, J.M., 2968, 3176
 Oliver, C., 2840
 Olsen, G.S., 2420
 Olsen, H.L., 2514
 O'Neil, J.J., 3220
 Onishi, Y., 1737
 Ono, H., 1737
 Ono, M., 545
 Onuma, H., 863, 3362
 Onuma, T., 238
 Oostra, B.A., 856
 Oppermann, U., 2426
 O'Rahilly, S., 718, 1035, 2037
 O'Reilly, D.S.J., 1596
 Orho-Melander, M., 2658
 Orntoft, T., 2018
 Ortmeyer, H.K., 2936
 Osawa, H., 863, 3362
 Osicka, T.M., 3274
 Osmond, C., 2321
 Osuga, J., 3368
 Otabe, S., 536, 1247
 Otaegui, P., 624, 704
 Otten, L.A., S333
 Otvos, J.D., 1949, 3300
 Ouchi, N., 2325
 Owen, K., 1287, 2313
 Özmen, L., 1779
P
 Pacher, P., 514
 Packard, C.J., 1596
 Pagano, G., 3311
 Pahuja, A., 2126
 Palisi, M., 808
 Pallardó, F.V., 1118
 Palmer, D., 1194
 Palmer, J.P., 1346
 Palmiter, R.D., 778, 1793
 Pamplona, R., 1535
 Pan, C., 3151
 Pan, C.Q., 1453
 Pang, Y., 3461
 Panhuysen, C.I.M., 833
 Pani, L., 2871
 Paniagua, J.A., 2596
 Panzer, C., 803
 Pappan, K.L., 2877
 Paramore, D.S., 724
 Parancas, M., 1543
 Parkhouse, W., 943
 Parlanti, N., 2911
 Parry, E.M., 2329
 Parving, H.-H., 1157
 Paschke, R., 2474
 Pascual-Leone, A.-M., 392
 Pasman, J.W., 790
 Pastori, R.L., 562
 Patané, G., 1419, 1437, 2749, S134
 Patel, H.R., 2099
 Patel, N., 2090
 Paterniti, J.R., Jr., 1083
 Paterson, A.D., 2975
 Patil, S., 2587
 Patsch, J.R., 3331
 Patsch, W., 1281, 3331
 Patterson, B.W., 1867
 Patterson, N., 2135
 Patton, M., 1291
 Paty, B.W., 2148, 3428
 Paulweber, B., 1281
 Payne, F., 2866
 Paz-Rojas, E., 2596
 Peakman, M., 1745
 Pearson, T.C., 265
 Pease, J.E., 2441
 Pechhold, K., 3237
 Pechous, P.A., 2709
 Pedersen, O., 1, 2199, 3561
 Pedersen, P.K., 449
 Pedersen, S.B., 2199
 Pederson, R.A., 652, 943, 2677
 Pegoraro, L., 3311
 Pégrier, J.-P., 2363
 Peila, R., 1256
 Pena, A., 2282
 Peñarroja, G., 1000
 Peng, X., 1453
 Perez, B., 3435
 Pérez-Jiménez, F., 2596
 Peri, G., 55
 Permana, P.A., 1618
 Permutt, M.A., 1997, S308, S484
 Pernet, A., 3384
 Perone, P., 3510
 Perret, P., 2903
 Persaud, S.J., 98
 Pertusa, J.A., 3245
 Pertusa, J.A.G., 2552
 Pérusse, L., 848
 Perwitz, N., 2691
 Peters, R.K., 2796
 Petersen, I., 921
 Petersen, K.F., 797, 1022
 Petersen, O.H., S349
 Petrone, A., 1649
 Pettit, A.I., 2846
 Philippe, J., 557
 Philipson, L.H., S183
 Phillips, B.G., 734
 Phillips, C., 1622
 Phillips, D.I.W., 1066
 Piao, L., 238
 Piemonti, L., 55
 Pierroz, D.D., 1337
 Pietropaolo, M., 2561
 Pietzsch, J., 3102
 Piganelli, J.D., 347, 2561
 Pimenta, W., S265
 Pinney, D.F., 1997
 Pinteur, C., 3486
 Pinto, G.A., 1529
 Pipeleers, D., 669, 2018, S326
 Pipeleers, D.G., 2982
 Piquer, S., 2982
 Piras, G., 3083
 Piro, S., 1419, 1437, 2749, S134
 Pirotte, B., 1896
 Pitkäniemi, J., 2568
 Pizarro, A., 1997
 Plodkowski, R., 30
 Poehlman, E.T., 880
 Poitout, V., 662
 Polak, M., 385
 Pold, R., 2199
 Pollin, T.I., 880
 Polonsky, K.S., 1851, S227
 Pols, H.A.P., 3128
 Polychronakos, C., 1383
 Pop-Busui, R., 2619
 Popoff, I.J., 1028
 Populaire, C., 1247
 Pories, W.J., 2959
 Pörksen, N., 424, S245, S255
 Portero-Otín, M., 1535
 Portha, B., 392, 1443
 Portik-Dobos, V., 3063
 Pospisilik, J.A., 943, 2677
 Potier, M., 182
 Pouillon, V., 2012
 Poulet, R., 168
 Poulsen, P., 921
 Poussier, P., 2975
 Powell, T.L., 2214
 Power, R., 638
 Pozzilli, P., 1649
 Prah, J.M., 2306
 Prasad, K., 3229
 Prat, J., 1535
 Pratipanawatr, T., 462, 3043
 Pratipanawatr, W., 462, 3043
 Pratley, R.E., 455, 1884, 1889
 Prentki, M., 2496, S405
 Preston, E., 152
 Preuet, B., 3229
 Price, R.A., 1989
 Prigeon, R.L., 951
 Prochazka, M., 3342
 Proietti-Pannunzi, L., 880
 Proks, P., S368
 Puchalski, Z., 3347
 Pugh, W., 1851
 Pujol, A., 624, 704
 Purrello, F., 1419, 2749
 Putnam, A., 2126

Putto-Laurila, A., 493

Q

Qi, Y., 2099
 Qian, F., S183
 Qian, R., 1986
 Qian, W.-j., S43
 Qiang, X., 2450
 Qiao, L., 19
 Qiu, H., 937
 Quagliaro, L., 1076
 Qvisth, V., 3376

R
 Rabinovitch, A., 638
 Rabuazzo, A.M., 2749
 Rademaker, T., 856
 Rahier, J., 3245
 Rahmouni, K., 439
 Raitakari, O., 1125
 Raitakari, O.T., 493
 Rajab, A., 1291
 Rajala, M.W., 2951
 Rajotte, R.V., 638, 2148
 Ramachandran, A., 1622
 Ramana, K.V., 3095
 Ramanathan, S., 2975
 Rami, T.M., 231
 Ramos, S., 392
 Ranalletta, M., 2450
 Rankinen, T., 848
 Rao, D.C., 848
 Rasch, R., 3090
 Rasmussen, S.K., 3561
 Rasmussen, V., 3306
 Rattigan, S., 42, 1138, 3492
 Raurell, M., 66
 Ravel, D., 2363
 Ravier, M.A., S60, S144, S177
 Raymond, D.R., 1194
 Razeghi, P., 2587
 Reach, G., 3263
 Reddy, K., 2179
 Redgrave, T.G., 2377
 Reed, L., 3384
 Rees, P., 265
 Regalia, E., 1690
 Regittig, W., 2903
 Reichart, D., 1907
 Reifsnnyder, P.C., 825
 Reijonen, H., 1375
 Reilly, R., 2405
 Reimann, F., 2757, S368
 Reimer, M.K., S138
 Reiter, A.K., 928
 Reitman, M.L., 2113, 2727
 Reitz, R., 30
 Remuzzi, G., 3083
 Ren, Q., 2861
 Renaud, Y., 1629
 Renier, G., 1180
 Renn, W., 37
 Renner, O., 3107
 Renström, E., S33, S74
 Rett, K., 1060
 Retzlaff, B.M., 1005
 Reunanen, A., 2568
 Reviron, D., 3326
 Rewers, M., 1208
 Reynolds, R.L., 3336
 Rhim, B.Y., 522
 Rhodes, C.J., 966, 2496
 Ribes, G., 406

Ricart, W., 1000, 2348
 Rice, T., 848
 Rich, S.S., 506, 3577, S288, S316
 Richelsen, B., 1
 Richter, E.A., 284, 583
 Ricordi, C., 562
 Ridderstråle, M., 2658, 3554
 Riedel, M.J., S434
 Rief, M., 3237
 Riegger, I., 3237
 Riggs, J.E., 2817
 Riley, D.J., 3290
 Ringel, J., 2653
 Ris, F., 557
 Rito, C.J., 1083
 Ritov, V.B., 2944
 Ritz-Laser, B., 557
 Riu, E., 624, 704
 Rivera, A., 182
 Rizo, J., S12
 Rizza, R.A., 301
 Robbins, P.D., 356
 Roberts, G.A., 2982
 Robertson, R.P., 1772, 3428
 Roche, H.M., 2037
 Rochford, J., 1035
 Roden, M., 49, 599, 3025
 Roderigo-Milne, H.M., 98
 Rodriguez, B.L., 1256
 Roduit, R., S405
 Roep, B.O., 2119
 Roger, M., 1980
 Rogers, N.L., 2895
 Rogus, J.J., 1188, 1655
 Roh, K.J., 676
 Röhrig, K., 2369
 Roivainen, M., 2568
 Rolland, J.-F., 376, 3245
 Roman, M.J., 1543
 Romeo, G., 2241
 Romeo, S., 860
 Römer, J., 1972
 Romito, R., 1690
 Ron, D., S455
 Rondinone, C.M., 2405
 Ronkainen, M., 646
 Rönnemaa, T., 493, 3479
 Rooman, I., 686
 Rooyackers, O., 2074
 Roper, M.G., S43
 Rorsman, P., S33, S74
 Rosenzweig, T., 1921
 Ross, K., 3176
 Rossetti, L., 271, 606, 893, 1016, 2179, 2951
 Rossi, F., 1076
 Roth, E., 599
 Rothman, D.L., 1022
 Rouet, P., 293
 Routh, V.H., 2056
 Rowsell, P., 73
 Roy, S., 1565
 Ruan, H., 1319, 3176
 Rubens, M.B., 1949
 Rubio, E., 770
 Ruderman, N., 159
 Ruderman, N.B., 2005, 2886
 Rudert, W.A., 356
 Rudich, A., 2719
 Rue, P.A., 1851
 Ruiz, M.C., 1535
 Russel, F.G., 790

Russell, G., 506
 Russell, G.B., 3577
 Russell, J.C., 1194, 1548
 Rust, S., 2922
 Ruth, T.B., 3055
 Rutter, G.A., 2536, S162, S190
 Ryan, E.A., 2148, 3428
 Rydén, M., 484, 1601, 2025, 3376
 Ryder, J.W., 2703

S

Saad, M.F., 1263, 2642
 Saad, M.J.A., 2270
 Saad, R., 3014
 Sabatier, F., 2840
 Saccani, A., 55
 Sachs, D.H., 3220
 Sachs, R., 813
 Sadeharju, K., 2568
 Saeki, K., 1842
 Sage, E.H., 1194
 Saha, A.K., 2886
 Sainsbury, A., 152, 3420
 Sajjan, M.P., 2936
 Sakai, K., 238
 Sakamoto, K., 479, 567
 Sakaue, H., 1672
 Sakoda, H., 1737
 Sakurai, T., 430
 Salapatek, A.M.F., 3450, S434, S443
 Sale, M.M., S316
 Sales, M., 591
 Saller, A., 251
 Salvayre, R., 1535
 Samaras, K., 3163
 Sampol, J., 2840
 Sampson, S.R., 1921
 Sandkuijl, L.A., 856
 Sandu, O.A., 2256
 Sandusky, G.E., 2709
 Sandvik, L., 2637
 Sanjeevi, C.B., 1346
 Sanmarco, M., 2840
 Sanna, V., 1356
 Santamaria, P., 325
 Santangelo, C., 1437
 Santeusano, F., 2911
 Saremi, A., 1889
 Saris, W.H.M., 2220
 Sarkar, S.K., 2066
 Sarvetnick, N., 1356
 Sasaki, T., 712
 Sasaoka, T., 2387
 Sassani, J.W., 3055
 Sastre, J., 1118
 Satake, S., 1663
 Sato, T., 1565
 Sato, Y., S29, S96
 Satoh, S., 87
 Satoh, T., 114
 Sattar, N., 1596
 Saumet, J.L., 1214
 Savage, D., 2037
 Savage, P., 2642
 Savage, P.J., 1263
 Savoye, M., 1022
 Sayed, A.A.R., 3532
 Sayegh, M.H., 2489, 3202
 Scalia, R., 1556
 Scarlett, J.A., 2270

Searce, L.M., 1997
 Schachtrup, C., 2922
 Schaefer, J.B., 1346
 Schaeffer, T.R., 2066
 Schäffer, L., 762
 Scherer, P., 2951
 Scherer, P.E., 2294
 Schermerhorn, T., S83
 Schillinger, M., 3582
 Schimke, J.C., 1913
 Schirmbeck, R., 3237
 Schissler, J., S389
 Schleicher, E., 3532
 Schmelzer, J.D., 819
 Schmidt, A.-M., 3532
 Schmieder, F., 2005
 Schmitz, O., 424, 2199, S245, S255
 Schneider, J., 867
 Schoen, F.J., 2709
 Schoenle, E.J., 2301
 Scholey, J.W., 1146
 Schrauwen, P., 2220
 Schrijvers, B.F., 3090
 Schroeder, S., 2474
 Schuit, F., 669, S326
 Schuit, F.C., 2018
 Schulz, M., S363
 Schurmans, S., 2012
 Schuster, G.U., 2426
 Schwanstecher, C., 875, S358, S363
 Schwanstecher, M., 875, S358, S363
 Schwartz, M.W., 778
 Schwarzer, C., 3420
 Schwenger, V., 3532
 Schwenk, W.F., 301
 Scognamiglio, R., 808
 Scott, F.W., 73
 Scott, J.D., S385
 Secchi, A., 55
 Sechi, L.A., 1226
 Seeley, R.J., 3196
 Segel, S.A., 724
 Seghers, V., 3440
 Seino, Y., 1409, 2522
 Seissler, J., 2982
 Sekiguchi, N., 2804
 Sekihara, H., 87
 Sengenès, C., 293
 Senn, J.J., 3391
 Seno, M., 1398
 Sentinelli, F., 860
 Seong, J.-K., 676
 Sereni, L.P., 1690
 Serna, J., 770
 Serné, E.H., 1515
 Serra, P., 325
 Serradas, P., 392
 Servais, G., 2012
 Sesti, G., 1419
 Setty, S., 1201
 Sewter, C., 1035, 2037
 Sewter, C.P., 718
 Sgarbi, G., 1745
 Sgroi, D.C., 413
 Shah, P., 301
 Shamooh, H., 606, 893, 2179
 Shani, M., 3107
 Shao, J., 19
 Shapiro, A.M.J., 638, 2148, 3428

- Sharma, A., 413, 1793
 Sharma, A.M., 1699
 Sharp, G.W.G., 105, S83, S91
 Sharrett, A.R., 3069
 Shaw, M., 339
 Shaw, S., 3505
 She, J.-X., 2334
 Shen, X., 174, 2412
 Shepherd, M., 2329
 Sherry, A.D., S389
 Sherwin, R.S., 339
 Sheu, L., 1425
 Shi, C., 198
 Shih, D.Q., S343
 Shimano, H., 3368
 Shimizu, I., 863
 Shimodaira, M., 243
 Shimomura, I., 2325, 2734, 2915
 Shine, A., 1714
 Shintani, M., 243, 545
 Shionoiri, F., 3368
 Shiota, C., 1240
 Shiota, M., 469, 3033
 Shirasugi, N., 265
 Shiroishi, T., 2811
 Shoji, T., 871, 1523
 Shojima, N., 1737
 Shornick, M., S484
 Short, K.R., 2395
 Shuker, A.J., 1083
 Shuldiner, A.R., 231, 880
 Shull, G.E., 3245
 Shulman, G.I., 49, 469, 797, 1022, 2113, 2903, 2959
 Shum, A.S.W., 2811
 Shum, K., 1681
 Sica, A., 55
 Siddals, K.W., 2629
 Sidell, R.J., 1110
 Sihota, S.S., 2317
 Silander, K., 1644
 Silveira, L.A., 1529
 Simell, O., 646
 Simell, T., 646
 Simmons, R.A., 1499
 Simon, C., S258
 Simonson, W.T., 1763
 Sindelar, D., S103
 Sindelar, D.K., 778
 Singh, G.P., 2450
 Sinha, M., 2968
 Sinha, R., 1022
 Sinkey, C.A., 734
 Sipilä, H., 3479
 Sipula, D., 3003
 Sironi, A.M., S130
 Sivitz, W.I., 439, 2434
 Sjöroos, M., 646
 Sjöstrand, M., 2742
 Skinner, J.S., 848
 Skolnick, G., S308
 Smih, F., 293
 Smiles, A., 1188, 2264
 Smiroldo, S., 1367
 Smith, D., 3384
 Smith, G.D., 2313
 Smith, R.N., 994, 2489, 3202
 Smith, S.A., 1493, 2066
 Smits, P., 790
 Smukler, S.R., 3450
 Snehaltha, C., 1622
 Snell-Bergeon, J.K., 1208
 Snijders, P.J.L.M., 856
 Soares, M.P., 994
 Soeller, W.C., 2158
 Solakivi, T., 493
 Soler, J., 66
 Solini, A., 251
 Someya, Y., 1409
 Somwar, R., 2090
 Son, S.M., 522
 Song, Z., 79
 Sonta, T., 1588
 Soriano, F.G., 514
 Sorkin, J.D., 1957
 Spielman, R.S., 3318
 Spilde, T., 3229
 Squires, P.E., 98
 Sreekumar, R., 1913
 Srinivasan, S.R., 204
 Srivastava, S.K., 3095
 Staels, B., 1507
 Staessen, J.A., 2653
 Stafford, S.G., 943, 2677
 Staiger, H., 37
 Stalker, T.J., 1556
 Standaert, M.L., 2936
 Standeven, K.F., 189
 Stanley, C.A., S421
 Stefan, N., 1884, 1889, 2964, S234
 Steffensen, K.R., 2426
 Stehouwer, C.D.A., 1157, 1515
 Steiler, T.L., 2703
 Stein, D., 271
 Steinberg, H.O., 3517
 Steinbrenner, H., 2982
 Steiner, D.F., S1, 398, S285
 Steiner, K., S103
 Stern, D., 3532
 Stern, M.P., 841
 Stevens, H., 2866
 Stevens, M., 3245
 Stevens, M.J., 2619, 3510
 Stewart, A.F., 3003
 Stingl, H., 49, 3025
 Stitt, A., 2826
 Stoeckert, C.J., Jr., 1997
 Stoffel, M., S343
 Stoffers, D.A., 2546
 Stone, S.J., 3189
 Storgaard, H., 1271, 3554
 Straub, S.G., S83, S91
 Street, C., 3318
 Striker, G.E., 182, 499
 Striker, L.J., 182, 499
 Strindberg, L., 2742
 Stringham, H.M., 1644
 Strobert, E., 265
 Stukenbrok, H., 2158
 Stulnig, T.M., 2426
 Stumvoll, M., 37, 1060, 2341, 2854, 2964, S122, S234
 Sturis, J., 424
 Su, B., 624
 Suarez, B., S308
 Suarez-Pinzon, W.L., 638
 Suchard, M.A., 2105
 Südhof, T.C., S3, S12
 Sudre, B., 1461
 Sugden, D., 98
 Sugihara, S., 3408
 Sullivan, B., 2619
 Sumitsugi, S., 2325
 Summers, L.K.M., 2467
 Sun, B., 2764
 Sund, N.J., 2546
 Sundell, J., 1125
 Sunderland, T., 1859
 Sundkvist, G., 1346, 1754
 Sunehag, A.L., 3170
 Suzuki, T., S19
 Suzuma, K., 2709
 Svanfeldt, M., 2074
 Svensson, C.I., 2249
 Svensson, M.K., 2658
 Swanson, E., 1166
 Swedish Childhood Diabetes Study Group, 1346
 Sweeney, G., 2719
 Sweet, I.R., 1763
 Swift, H.H., 398
 Syndercombe-Court, D., 1622
 Syrris, P., 1291
 Szabó, C., 514
 Szabó, E., 514
 Szalkowski, D., 2412
 Szczepaniak, L.S., 1825
 Szklo, M., 3069
 Szpirer, C., 2012
 T
 Taborsky, G.J., Jr., 2997
 Tachikawa, A., S25
 Tack, C.J., 790, 3545
 Tack, I., 182
 Tadaki, D., 2135
 Taegtmeyer, H., 2587
 Tahara, H., 871, 1523
 Taka, J., 87
 Takahashi, M., 2325
 Takahashi, N., S19, S25, 2099
 Takane, K.K., 3003
 Takasawa, S., S462, S478
 Takata, T., 430
 Takeda, T., 2522
 Takehiro, M., 2522
 Takikawa, O., 356
 Tamarina, N., S183
 Tamori, Y., 2045
 Tamura, Y., 1825, 3368
 Tan, C., 2989
 Tan, S., 2796
 Tanabe, F., 3362
 Tanabe, J., 819
 Tanaka, Y., 238
 Tandon, N.N., 3113
 Tang, D., 1146
 Tang, J., 1172
 Tang, L., 3450
 Taniyama, M., 536
 Taniyama, Y., 2604
 Tanizawa, Y., 712
 Tanner, C.J., 901, 2959
 Tanner, K., 880
 Tano, Y., 224
 Tashiro, K., 2530
 Taskinen, M.R., 1949, 3300
 Taskiran, M., 3306
 Tataranni, P.A., 455, 1884, 1889, 2964, S262
 Taylor, G.A., 2317
 Taylor, K., 1042
 Taylor, W., 2629
 Teague, J.L., 2441
 Teigeler, A., 2854, S234
 Temelkova-Kurktschiev, T., 3102
 Tenne-Brown, J., 1859
 Terasaki, J., 910
 Terauchi, Y., 87, S414
 Teshigawara, K., 1672
 Tesson, F., 2459
 Testers, L., 856
 Thai, K., 1146
 Thallas, V., 3274, 3283
 't Hart, L.M., 884
 Thébaud, K., S489
 Thévenod, F., S33
 Thevenon, S., 3486
 Thiessen, S., 325
 Thirone, A.C.P., 2270
 Thomas, D.W., 2282
 Thomas, H.E., 311
 Thomas, M.C., 3274
 Thomason, D.B., 615
 Thompson, C.H., 3163
 Thong, F.S.L., 583
 Thorell, A., 2074
 Thorens, B., 1805
 Thörne, A., 484
 Thorpe, S.R., 2826
 Thung, S.N., 130, 2082
 Tiengo, A., 808
 Tigas, S.K., 3170
 Tilley, D.G., 1194
 Tilton, R.G., 3090
 Tiret, L., 3473
 Tobie, K., 87, 536, 1247
 Tobiasch, E., 994
 Tochino, Y., 114, 2734, 2915
 Todd, J.A., 2866, 3573
 Toffolo, G., S227
 Tomas, E., 2886
 Tomita, M., 536
 Tomita, S., 3368
 Tookman, L., 3412
 Tornqvist, H., 3554
 Török, D., 2090
 Toschi, E., S130
 Toso, C., 557
 Tourrel, C., 1443
 Toyokuni, S., 1409
 Tozzo, E., 2903
 Tracy, R.P., 1131, 2642
 Tran, P.O.T., 662
 Tran, T., 1772
 Trégouët, D.A., 3473
 Trevasakis, J., 1859
 Trevillyan, J.M., 2405
 Trimarco, B., 168
 Trimarco, V., 168
 Trischitta, V., 2294
 Tritschler, H., 3532
 Trost, S.U., 1166
 Trucco, M., 356, 2561, S427
 Tschritter, O., 37, 2854, S234
 Tsubamoto, Y., 87
 Tsuda, K., 1409
 Tsutsumi, M., 1453
 Tsuura, Y., 2522
 Tu, J., 2989
 Tuch, B.E., 2989
 Tune, J.D., 1201
 Tung, L.Y.C., 3412
 Tuomi, T., 1609
 Tuomilehto, J., 1644, 2568, 2581, 2866

- Tuomilehto-Wolf, E., 2866
 Tura, A., S221
 Turnbull, A.V., 2441
 Turnbull, D.M., 247, 2317
 Tuveno, T., 1964
 Twardzik, D.R., 966
 Twisk, J.W.R., 1157
 Tyhonas, J.S., 1083
- U**
 Uchigata, Y., 545
 Uchino, H., 1825
 Uchizono, Y., 2530
 Uehara, Y., 2922
 Uenaka, R., 114
 Ueno, N., 1729
 Uitterlinden, A.G., 3128
 Ukkola, O., 848
 Ullrich, S., 3440
 Ulrich, R., 2405
 Umayahara, Y., 224, 2505
 Underwood, S.R., 1949
 Ungsunan, L., 1337
 Unno, M., S478
 Unno, Y., 2833
 Urhammer, S.A., 3561
 Ursø, B., 583
 Uskokovic, M., 1367
 Utsugi, R., 3220
 Uusitupa, M., 2321
 Uusitupa, M.I.J., 2581
 Uysal, K.T., 1876
- V**
 Vaag, A., 1102, 3554
 Vaag, A.A., 1271
 Vaccaro, T., 2301
 Vaessen, N., 856
 Vagefi, P.A., 3220
 Vague, P., S240
 Valdes, A.M., 3336
 Valensi, P., 813
 Valle, T.T., 1644, 2581
 Valverde, A.M., 743
 van Aggel-Leijssen, D.P.C., 2220
 van Baak, M.A., 2220
 Van Citters, G.W., 755
 van den Berg, P., 3300
 van der Vusse, G.J., 3113
 van der Woude, F., 3532
 van Duijn, C.M., 856
 van Duyn, C.M., 3128
 Van Dyke, K., 2817
 van Etten, E., 2119
 van Exel, E., 1088
 Van Eylen, F., 366, 1815, 2773
 van Gurp, P.J., 3545
 van Haeften, T.W., 884, 3135, S265
 van Halteren, A.G.S., 2119
 van Harmelen, V., 2025
 Van Huysen, C., 2619
 Van Parijs, L., 1319
 van Rossum, E.F.C., 3128
 Van Schravendijk, C., 669
 Van Tol, A., 3300
 Van Wyck, L., 2459
 Varadi, A., 2536, S190
 Varani, J., 3510
 Varela-Calvino, R., 1745
 Vasavada, R.C., 3003
 Vasseur, F., 1640
 Vatamaniuk, M.Z., 2546
- Vatin, V., 1247, 1640
 Vaulont, S., 293
 Vecchione, C., 168
 Veldhuis, J., 424
 Veldhuis, J.D., S245, S255
 Vella, A., 301
 Velloso, L.A., 2270
 Velut, J.-G., 2840
 Vento, M., 1118
 Venugopal, S.K., 3049
 Verdaguer, J., 325
 Vernon, R.B., 1194
 Vestergaard, H., 1
 Vestra, M.D., 251
 Vettor, R., 144
 Vialettes, B., 3326
 Viberti, G.C., 3083
 Vidal, H., 2220
 Vidal, J., 1005
 Vidal-Puig, A., 718
 Vidal-Puig, A.J., 1035, 2037
 Vigneri, R., 2749
 Viikari, J., 3479
 Vijayaravaghan, S., 1622
 Vilcu, C., 606, 893
 Vilja, P., 2568
 Viljanen, T., 3479
 Villeneuve, A., 1629
 Viña, J., 1118
 Vincent, M.A., 42
 Vinson, C., 2727
 Vionnet, N., 3568
 Virtanen, K.A., 3479
 Viskari, H.R., 2568
 Vlahos, C.J., 2709
 Vlassara, H., 2082
 Vohl, M.-C., 1629
 Vollenweider, P., 1052
 Vølund, A., 762
 von Bibra, H., 3077
 von Eckardstein, A., 2922
 Voss, L.D., 3468
 Vozarova, B., 455, 1884, 1889, 2964
 Vranic, M., 1681, S271
- W**
 Wada, T., 2387
 Wagenknecht, L.E., 1263, 2642
 Wagenmakers, A.J.M., 784, 2220
 Wagner, O., 3582
 Wahl, H.G., 1060
 Wahl, P., 1896, 2789
 Wahren, J., 3077
 Wahrenberg, H., 484
 Wakasaki, H., 2709
 Walden, C.E., 1005
 Walder, K., 1859
 Waldhäusl, W., 49, 599, 3025
 Waldherr, R., 3532
 Walker, M., 247, 1287, 2317
 Wallace, P., 2895
 Wallis, M.G., 3492
 Wang, F., 1005
 Wang, G., 1938, 1986
 Wang, G.-S., 73
 Wang, H., 1785, 2861, S333
 Wang, J., 3211
 Wang, J.-G., 2653
 Wang, X., 3505
 Wapelhorst, B., 3318
 Ward, W.K., 3263
- Wardell, T.M., 2317
 Warehime, S.S., 2817
 Waring, J.F., 2405
 Warman, J.H., 1188, 1655, 2264, 2294
 Warwar, N., S68
 Wasserman, D.H., 1310
 Wasson, J., S308
 Watada, H., 224, 2505
 Watanabe, M., 1635
 Watanabe, R.M., 1644
 Watarai, T., 224
 Waterman, I.J., 1708
 Watts, G.F., 2377
 Way, J.M., 901
 Way, K.J., 2709
 Webb, G.C., 398
 Weder, A., 541
 Wegmann, D., 2126
 Wehling, M., 2648
 Weir, G.C., 413, 1793
 Weisel, J.W., 189
 Weisser, M., 37, 2854
 Weitgasser, R., 3331
 Wells, G., 2459
 Welty, T.K., 1543
 Wen, L., 339
 Wen, W., S484
 Weng, J., 1609
 Wennberg, L., 79
 Wennergren, M., 2214
 Wennlund, A., 1601
 Westendorp, R.G.J., 1088
 Westerlund, J., 699, S50
 West of Scotland Coronary Prevention Study Group, 1596
 Weyer, C., 455, 1884, 2964
 Wheatley, C.M., 3492
 Wheeler, M.B., 3211, 3450, S434, S443
 Wheeler-Jones, C.P.D., 98
 Whitaker, P., 189
 White, A., 2629
 White, C., 247
 White, K.E., 3083
 White, M.F., 479
 White, R.B., 1461
 Whorwood, C.B., 1066
 Wicksteed, B., 2496
 Widén, E., 1609
 Wiekowski, J., 2922
 Wiernsperger, N., 139
 Wiles, K.R., 1644
 Wilkin, T.J., 3468
 Wilkinson-Berka, J.L., 3283
 Wilks, D., 152
 Willems, J., 3113
 Willi, S.M., 2895
 Williams, K., 841
 Williams, S.M., 1629
 Williamson, J.M., 2074
 Wilmore, J.H., 848
 Wilson, G.S., 3263
 Wilson, P.W.F., 833
 Wiltshire, E.J., 2282
 Windmill, K., 1859
 Winegar, D.A., 901
 Winn, H.J., 3202
 Wissmann, A., 3237
 Wittchell, D., 1028
 Wojtaszewski, J.F.P., 284, 583
 Wolf, B.A., S50, S427
- Wolford, J.K., 3342
 Wolfrum, C., S343
 Wolfsgruber, P., 1281
 Wolkoff, A.W., S343
 Wollheim, C.B., S37, S99, 1785, S333
 Wong, N.C.W., 1398
 Wong, R.K.M., 2846
 Woo, S.L.C., 130
 Wootton, S.A., 2684
 Wortman, M.D., 3196
 Wozniak, R., 606, 2179
 Wu, J.A., 1851
 Wu, M., 2412
 Wu, P., 276
 Wu, X., 541
 Wuytack, F., 3245
 Wylie, J.D., 3055
 Wysoki, M.G., 2135
- X**
 Xi, X., 1172
 Xiang, A.H., 2796
 Xiao, L., 2903
 Xie, J., 1842
 Xie, J.-T., 1851
 Xie, M., 3331
 Xu, H., 265, 1876, 2135
 Xu, X., 562, 1986, 1986
- Y**
 Yada, T., 124
 Yagita, H., 1391
 Yaghi, N., 3368
 Yajima, H., S83, S91
 Yamada, K., 1391, 3220, 3362
 Yamada, N., 3368
 Yamada, S., S29, 1398
 Yamada, Y., 1409, 2522
 Yamagata, K., 114, 910, 1785
 Yamamoto, K., 2604
 Yamamoto, S., 224, 3220
 Yamasaki, K., 2604
 Yamasaki, Y., 224, 2505
 Yamashita, H., 19
 Yamashita, S., 87
 Yamashita, T., 87, S414
 Yamauchi, K., S29
 Yamauchi, T., 536, 2727
 Yang, B., 430
 Yang, J.J., 2334
 Yang, L., 1453
 Yang, Q., 114, 910, 1785
 Yang, S.-N., 1425
 Yang, T., 3049
 Yang, T.-A., S343
 Yang, X., 1618
 Yang, X.M., 1016, 2951
 Yard, B., 3532
 Yasuda, H., 1391, 1398
 Yasuda, K., 536, 1247
 Yasuda, T., 224, 2505
 Yavari, R., 339
 Yazaki, Y., 536
 Ye, J.-M., 2886
 Yedovitzky, M., S68
 Yeh, C., 1201
 Yeung, S., 2811
 Yiannakouris, N., 2105
 Yin, H., 1964
 Yki-Jarvinen, H., S265
 Yoda, M., 536
 Yokono, K., 430, 1391

- Yokota, T., 2709, 2804
Yoon, J.-W., 2764
Yoshida, S., 2505
Yoshiuchi, I., 910
Youker, K.A., 2587
Youn, J.H., 915
Young, M.E., 2587
Young, R., 347
Young, R.A., S427
Young, R.J., 2629
Youngren, J.F., 1884
Yu, C., 49, 2959
Yu, H.Y., 1588
Yu, J.G., 2968
- Yuan, C.-S., 1851
Yue, D.K., 2612
Yung, S.L., 1453
- Z**
Zagon, I.S., 3055
Zaitsev, S.V., S448
Zakrzewska, K., 557
Zammit, V.A., 1708
Zappacosta, S., 1356
Zarghami, M., 1346
Zasloff, M.A., 2099
Zavattari, P., 3573
Zawalich, K., 2158
- Zawalich, W., 2158
Zeng, F., 2082
Zhang, B.B., S43, 2412
Zhang, C.-Y., 3211
Zhang, H.H., 2929
Zhang, J., 3499
Zhang, L., 1851
Zhao, C., 398, 2536
Zheng, F., 499
Zhou, G., 2074, 2412
Zhou, P., 3189
Zhou, X., 2922
Zhou, Y.-P., 1851
Zhu, J., 1453
- Zhu, M., 1842
Zhu, Q., 114, 910
Zhu, X., 541
Ziegler, R., 3532
Zierath, J.R., 2703
Zierler, K., 2698
Zimmet, P.Z., 1859
Zingaro, L., 1226
Zinker, B.A., 2405
Ziotopoulou, M., 1337
Zochodne, D.W., 2233
Zorzano, A., 3113
Zou, M.-H., 198
Zvagelsky, D., 2709

